# **SERVICE MANUAL**

Ver 1.2 2002.07

AEP Model **UK Model** 



Photo: XR-CA400

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-25L-136

### **SPECIFICATIONS**

## Cassette player section

Tape track Wow and flutter Frequency response Signal-to-noise ratio

4-track 2-channel stereo 0.08 % (WRMS) 30 - 18,000 Hz

Cassette type TYPE II, IV 61 dB TYPE I 58 dB

## **Tuner section**

FM

87.5 - 108.0 MHz Tuning range Aerial terminal External aerial connector Intermediate frequency  $10.7\,\mathrm{MHz}/450\,\mathrm{kHz}$ Usable sensitivity 8 dBf 75 dB at 400 kHz Selectivity Signal-to-noise ratio 66 dB (stereo), 72 dB (mono)

Harmonic distortion at 1 kHz

0.6 % (stereo), 0.3 % (mono) Separation 35 dB at 1 kHz 30 - 15,000 Hz Frequency response

MW/LW

Sensitivity

Tuning range Aerial terminal Intermediate frequency MW: 531 - 1,602 kHz LW: 153 - 279 kHz External aerial connector 10.7 MHz/450 kHz MW: 30 μV LW: 40 μV

# Power amplifier section

Speaker outputs Outputs (sure seal connectors) Speaker impedance -8 ohms

Maximum power output 50 W × 4 (at 4 ohms)

# General

Tone controls

Outputs Audio output

Power aerial relay control Power amplifier control

lead

Input Telephone ATT control

lead Bass ±9 dB at 100 Hz

Treble ±9 dB at 10 kHz Power requirements 12 V DC car battery

(negative earth) Approx.  $178 \times 50 \times 176$  mm (w/h/d) Dimensions

Approx. 182 × 53 × 161 mm Mounting dimensions

(w/h/d)

Approx. 1.2 kg Supplied accessories Parts for installation and

connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice

# FM/MW/LW CASSETTE CAR STEREO

9-870-235-13

**Sony Corporation** 2002G0500-1 e Vehicle Company

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# Notes on chip component replacement

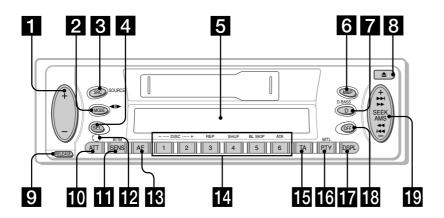
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

- Flexible Circuit Board Repairing  $\,$  Keep the temperature of the soldering iron around 270  $^{\circ}C$  during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

# SECTION 1 GENERAL

This section is extracted from instruction manual.

# Location of controls



Refer to the pages listed for details.

- 1 Volume +/- button 7, 13, 17
- 2 MODE (◀I►) button

During tape playback: Playback direction change 7, 8

During radio reception: BAND select 9

During CD/MD playback: CD/MD unit select 19

- SRC (SOURCE) (TUNER/TAPE/CD/MD) button 7, 9, 19
- 4 SEL (select) button 7, 15, 17, 18, 19, 20
- 5 Display window
- 6 MBP (My Best sound Position) button 19
- 7 D (D-BASS) button 18
- 9 RELEASE (front panel release) button 6, 22
- 10 ATT (attenuate) button 17
- **11** SENS/BTM button 9, 10, 13
- RESET button (located on the front side of the unit behind the front panel) 6
- 13 AF button 11, 13

14 Number buttons 8, 9, 12, 15, 18, 20, 21 During radio reception: Preset number select 9, 12

During tape playback:

- (3) REP 8
- 5 BL SKIP 8
- 6 ATA 8

During CD/MD playback:

- ① DISC 20
- 2 DISC + 20
- ③ REP 21
- 4 SHUF 21
- 15 TA button 12, 13
- 16 PTY/MTL (programme type/Metal) button 8, 14
- DSPL (display mode change) button 7, 10, 19, 20
- 18 OFF button\* 6, 7
- SEEK/AMS +/- button 8, 9, 10, 11, 14, 20 Seek 9 Automatic Music Sensor 8, 20 Manual search 10, 20
- \* Warning when installing in a car without ACC (accessory) position on the ignition key switch
  Be sure to press OFF on the unit for two seconds to turn off the clock display after turning off the engine.

When you press OFF momentarily, the clock display does not turn off and this causes battery wear.

# Setting the clock

The clock uses a 24-hour digital indication.

Example: To set the clock to 10:08

1 Press DSPL for two seconds.

The hour indication flashes.

Press either side of the volume button to set the hour.

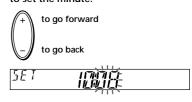




2 Press (SEL).



Press either side of the volume button to set the minute.

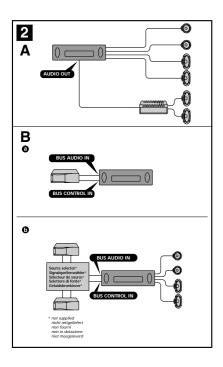


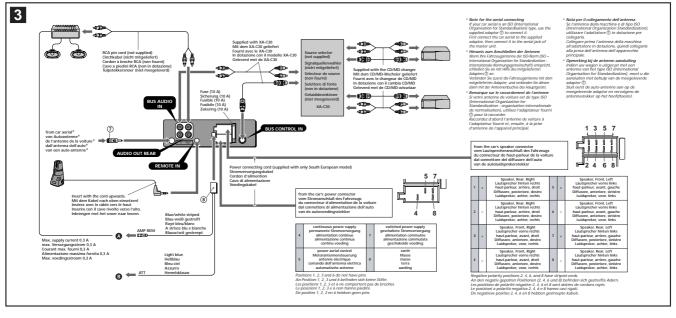
2 Press DSPL



The clock starts.

After the clock setting is complete, the display returns to normal playback mode.





Parts list (11)



### Cautions

- t onnections, turn the car ignition off to avoid
- Run all earth wires to a common earth point.

  Be sure to insulate any loose unconnected wires with electrical

### Power connection

POWER CONNECTION

Tower connectors may vary depending on the car. Check your car's power connector diagram to make sure the connecticus manch correctly. There are two basic types, You may need to switch the positions of the jump connector. Before connecting the unit to the car's power supply, he sure to mutath the positions of the jump connector of the connectic for the car's pin order. If the power connector of connectic for the position of the position of the position of the position connection of the position of the p

### WARNING

Shifting the fuse Check the pin position of the power connector of the car with the table on the below. If positions 4 and 7 are reversed, remove the fuse and shift it to the lower position as shown in the illustration.



- Be sure of Contract the Contract and Contract the Special Contract and Special Contract
- Tip (24-8-6)
  For connecting two or more changers, the source selector XA-C30 (optional) is necessary.

### Connection diagram (3)

To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other
system may damage the unit.
To the interface cable of a car telephone

If you have a power aerial without a relay box, connecting this unit with the power connecting cord (not supplied) may damage the aerial

- Notes on speaker connection

   Before connecting the speakers, turn the unit off.

   Before connecting the speakers, turn the unit off.

   Use speakers with an impedance of 4 to 8 ohms, and with
  adequate power handling capacities to avoid its damage.

   Do not connect the speaker terminals to the car chassis, or
  connect the terminals of the right speakers with those of the left

### Teileliste (11)



- ießlich für den Betrieb bei 12 V

- mit dem Gerat und ein Laussprecnern, bevor sie es mit de Hillisstromanschluß verbinden.

  Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.

  \* Aus Sicherheitsgründen müssen alle losen, nicht angeschlossenen Drähte mit Isolierband abisoliert werden.
- angez-mossenen trante mit toutersan absonert weret Hirweise zum Stromwersorgungkabel (gelt)

  \* Wenn Sie dieses Gerät zusammen mit anderen
  Stereokumponenten anschließen, muß der Autostromken,
  Stereokumponenten anschließen, muß der Autostromken,
  aufweisen als die Stumme der Sicherungen der einzelnen
  Kompenenten.

  \* Wenn kein Autostromkreis eine so bohe Leistung aufwei
  schließen Sie das Certal türket an die Batterie an.

Stromanschluß

Die Stromanschlüßer verschiedener Fahrzeuge können sich voneinander utlenschieden. Überprüfen Sie anhand des Stromanschlüßen Schallpläm des Fahrzeuge, 6. die Anschlüßen des Stromanschlußer Schallpläm des Fahrzeuge, 6. die Anschlüßen des Stromanschlußer Schallpläm des Fahrzeuge, 6. die Anschlüßen mit gelicherweise des Position des Überheitungssanchlusses unsichalblin. Bevor Sie das Gerät an die Stromverseugung des Deberheitungssanchlusses mit der Stillereuge nicht zu Deberheitungssanchlusses mit der Stillereuge nicht zu Geräten der Schallplämen der Prüfen der Schallplämen der Verschließen des Geräte Fahrzeugen der Prüfen des Schallplämen des Geräte Fahrzeugen der Prüfen des Geräte Fahrzeug



### Anschlußbeispiel (2)

- . «UISDE» Hinweise (2-A) Schließen Sie unbe Verstärker an•• Wenn ert erhältlichen Endverstärker anschließen erstärker nicht benutzen, wird der

Tip (2-8-6) Zum Anschließen von zwei oder mehr CDIMD-Wechslern wird der gesondert erhältliche Signalquellenwähler XA-C30 benotigt.

# Anschlußdiagramm (3)

An AMP REMOTE IN des gesondert erhältlichen Endverstark Dieser Anschluß ist ausschließlich für Verstarker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Geraf beschädigt werden.

An Schnittstellenkabel eines Autotelefons

- Lausperon's desisaugy weden Archibase nicht mit dem Verbinden Sie de Lautspreche auch nicht die Anschlüsse der Verbinden Sie des Lautspreche auch nicht die Anschlüsse der rechten mit denen des litten Lautspreches andere Versuchen Sie nicht. Lautspreche parallel anzuschließen. An die Lautsprecher anschlüsse dieses Geräts dürfen nur Passikulusprecher angeschlossen werden. Schließen sie keine Aktiviausprecher (Lautsprecher mit eingebauten Verstarkern) an, da diese sonst beschädigt werden komen.

### Liste des composants (11)



- r (E-caulIOIIS

  Cet apparel et conqu pour fonctionner sur courant continu de 12 V avec masse négative.

  Eviteur de fiver de vis sur les câbles ou de coincer ceux-ci dans l'obiest de fiver de vis sur les câbles ou de coincer ceux-ci dans l'obiest de fiver de vis sur les câbles ou de coincer ceux-ci dans l'obiest de l'extre de l'activité des cours-ceux-ci designes le moteur pour civier les cours-fecturis.

  Fancher le coeden d'alimentation non fourait praparel et les d'alimentation auxiliaire.
- Ad alimentation auxiliaire.

  Rassembler tous les fils de terre en un point de masse commun.

  Veillez à sioler tout fil ou câble non connectés avec du chatterton approprié.

Notes sur le cordon d'alimentation (jaune)

\*Lonque cet appareil est raccordé à d'autres éléments stérée, la valeur nominale des circuits de la voiture raccordée doit être supérieure à la somme des fusibles de chaque élément.

\*Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

# Raccordement de l'alimentation de l'alimentation

### AVERTISSEMENT

Décalage du fusible
Vérificz la position des broches du connecteur d'alimentation
voture dans le tableau ci-dessous. Si les positions 4 et 7 sont
inversées, retirez le fusible et décalez-le sur la position inférier
comme indiqué dans l'Illustration.



## Exemple de raccordement (2)

# Schémas de raccordement (3)

iacultatif Cette connexion existe seulement pour les amplificateurs. Le accordement à fout autre système peut endommager l'appareil. Vers le cordon de liaison d'un téléphone de voiture

## Elenco dei componenti (11)



### Attenzione

- chio è stato progettato per l'uso solo a 12 V CC

- Questo apparecchie è state prospitato per l'uso solo a 21 V. C. con massa negativa.

  Fivitare che i cari rimangamo bioccati da una vite o incastrati incelle parti mobile (al cempio nelle guide scorrevoil dei sedifici parti mobile (al cempio nelle guide scorrevoil dei sedifici parti mobile (al cempio nelle guide scorrevoil dei sedifici partici partici

Notes uí cavo di alimentazione (galato)

- Se questo apparecchio viene collegato in combinazione con altrompomenti setto, la potezza nominale deci circuiti dell'automobile deve essere superiore a quella prodotta dalla somma de fusibili di ciascun compomente.

- Se la potezza nominale dei circuiti dell'automobile nen è stificiente, collegare l'apparecchio direttamente alla batteria.

### Collegamento con l'alimentazione

Contegnimento Con I aliminentazione di consessi diversi as econda del tipo di automobile. Controllare il diagramam relativo al comento di controllare il diagramam relativo al comentone condigiamento incripanto perfettimento. Partire di controllare il diagramam relativo al contento di alimentazione. Patrire bei essere necessario cambiare le posizioni del connentero goli caliano dia principia. Di relativo di principio di contentero del caliano del principio. Partire di collegamento consegnida perfettimento. Partire del cambio controllo. Partire di collegamento all'internazione del di anti, sosicuranti di lari principio dell'anti periodi nell'anti periodi nell'antivo dell'antivo della dell'antivo della dell'antivo della dell'antivo della dell'antivo della della

### AVVERTENZA

Come spostare il fusibile
Controllare la posizione dei piedini del connettore di
alimentazione dell'auto utilizzando la tabella in basso. Se i piedini
4 e 7 sono invertiti, rimuovere il fusibile e spostario nella posizione
più in basso come mostrato nella figura.



# Esempi di collegamento (2)

Note (BA)

- Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.

- Se si effettu ali collegamento di un amplificatore di potenza opzionale e l'amplificatore incorporato non viene utilizzato, il segnale acustico si disattiva.

### Schema di collegamento (3)

A AMP REMOTE IN di un amplificatore di potenza opzionale Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.

Al cavo interfaccia di un telefono per auto

- Notes sul collegamento dei diffusori sepaner l'apparecchio.

   Prima di Collegare i diffusori spegnere l'apparecchio.

   Villuziare diffusori di impedenza compresa tra 4 e 8 ohn e con capacità di potenza adeguata, altrimenti i diffusori potrebbero ventre danneggiani, alli dei sistema diffusori al telsio dell'auto e non collegare i terminali dei diffusori estro a quelli del diffusori anno collegare i terminali dei diffusori destro a quelli del diffusori

### Onderdelenliist (11)

# ale.

### Let op!

- LUL Up!

  Dit apparate is ontworpen voor gebruik op gelijkstroom van een
  12 Vols auto-accu, negatief geaard.

  A'roge vroor dat de draden miet ender een schoor of noom
  12 Vols auto-accu, negatief geaard.

  A'roverse aanduitingen te verrichten moer te het contact afzetten
  mot konstalling te verrichten moer te het contact afzetten
  mot konstalling te verriighten.

  Sluid het netwoer (niet meegelevens) aan op het toestel en de
  aanduit.

haldsprefers voorlader is het op de huipvoorungs-ansuming-annaba.

Met op de progressie op de genomente prophilis andropant land-stration op de genomente prophilis andropant and a \*Voorzie niet aangesleen draden om veiligheidstredenen slight van isolatieten.

Demensingen bij de voordingslade (gee)

Ommerstingen bij de voordingslade (gee)

Vanwerer uit die schaf annabili samme met andere componenten, moet het vermogen van de aangebien autontovonkring goder zijn van de vermogen van de aangebien andersomskring goder zijn van de vermogen van de aangebien andersomskring goder zijn van de vermogen van de aangebien andersomskring noord van de vermogen van de aangebien andersomskring onder zijn van de vermogen van

### WAARSCHUWING



## Voorbeeldaansluitingen (2)

Suit eest de massakabel aan alvorens de versterker aan te skulten.
Wanneer u een los verkrijgbare vermogensversterker aanskult en de ingebouwde versterker niet gebruikt, wordt de pieptoon uitgeschakelt.

# Tip (2-8-6) Om twee of meer CD/MD-wisselaars aan te sluiten, hebt u de ne-luidsbronklezer XA-C30 (optioneel) nodig.

### Aansluitschema (3)

raken. Verbind in geen geval de aanskultingen van de luidsprekers met het chassis van de sulto en sluit de aanskultingen van de rechter en linker luidspreker niet op eikaar aan te skilten. Probeer nooit de luidsprekes parallel aan te skilten. Probeer nooit de luidsprekes parallel aan te skilten. op de hidspreke sanskulting van dit apparaat. Dit all elden tot beschadiging van het toestel. Skilt dus altijd uitskultend kuldsprekers zonder ingebounde versterker aan.

Voedingsaansluiting

Verplaatsen van de zekering Vergelijk de pinpositie van de voedingsstekker in de auto met de onderstaande tabel. Als de posities 4 en 7 omgekeerd zijn, moet u de zekering verwijderen en deze in de onderste positie aanbrengen zoals aangegeven in de afbeelding.

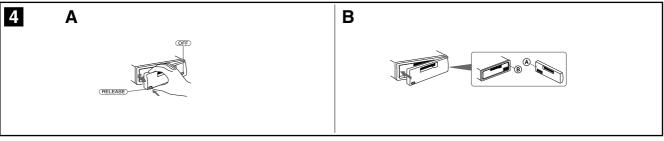


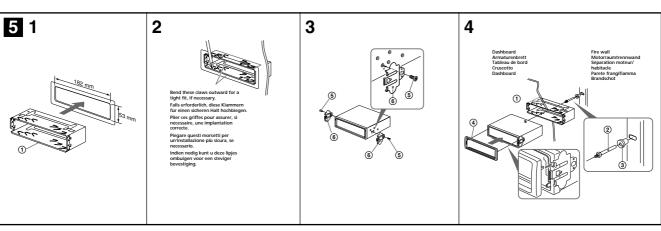
 Naar AMP REMOTE IN van een los verkrijgbare vermogensversterker vermogensversterker
Deze aanstulling is alleen bedoeld voor versterkers. Door een
ander systeem aan te slullen kan het Toestel worden beschadligd

Naar het interface-snoer van een autotelefoon

# Opgelet Indien u beschikt over een elektrische antenne zonder relaiskast, kan de antenne worden beschadigd wanneer u dit toestel aansluit met behulp van de voedingskabel (niet meegeleverd).

met bestulp van die voedingslaahe (inst meegleveel).
Opmenking besteffende de aanululinooreen - De antermonosingslaahe (Danov) levert + 12 V gelijkinoom van die verster van die van die verster van die van die verster van die vallegruit in et een FAMMAU Waristeren in de antermoloorien van die bestamte van die verster van die van die verster van die bestamte van die verster va





### Precautions

- Choose the installation location carefully so that the
  unit will not interfere with normal driving operations
   Avoid installing the unit in areas subject to dust, dirt,
  excessive vibration, or high temperature, such as in
  direct sunlight or near heater ducts.
   Use only the supplied mounting hardware for a safe
  and secure installation.

Mounting angle adjustment Adjust the mounting angle to less than 20°.

# How to detach and attach the front panel ( 4)

Before installing the unit, detach the front panel

4-A To detach
Before detaching the front panel, be sure to press OFF).
Press (RELEASE), then slide the front panel a little to the left, and pull it off towards you.

# Mounting example ( 5)

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press OFF on the unit for two seconds to turn off the clock display after turning off the

engine.
When you press (OFF) only momentarily, the clock display does not turn off and this causes battery were

### RESET button



### Vorsichtsma nahmen

- Wählen Sie den Einbauort sorgfältig so aus, daß das Gerät beim Fahren nicht hinderlich ist. Bauen Sie das Gerät so ein, dad sei seinen hohen Temperaturen (keinem direkten Sonnenlicht, keiner Warmluft von der Heizung), keinem Staub, keinem Schmutz und keinen atziken Ubrationen ausgesetzt

Hinweis zum Montagewinkel Das Gerät sollte in einem Winkel von weniger als 20° montiert werden.

### Abnehmen und Anbringen der Frontplatte (4)

Nehmen Sie die Frontplatte vor dem Einbau des Geräts ab.

G.-A Abnehmen Schalten Sie das Gerät vor dem Abnehmen der Frontplatte unbedingt mit @FF aus. Drücken Sie (MELASS), schieben Sie anschließend die Frontplatte ein wenig nach links, und ziehen Sie sie auf sich zu

4-B Anbringen Setzen Sie Teil (a) der Frontplatte wie in der Abbildung dargestellt an Teil (b) des Geräts an, und drücken Sie die linke Seite der Frontplatte an, bis sie mit einem Klicken

# Montagebeispiel (5)

Warnhinweis zur Installation des Ger ts in einem Auto mit Z ndschlo ohne Zubeh rposition

Drücken Sie am Gerät unbedingt zwei Sekunden lang (@F), um die Uhrzeitanzeige auszuschalten nachdem Sie den Motor ausgeschaltet haben. Wenn Sie (@F) nur kurz drücken, wird die Uhrzeitanzeige nicht ausgeschaltet, und der Autobatterie wird Strom entzogen.

### Taste RESET

Nach der Installation und dem Anschluß muß die Taste RESET mit einem Kugelschreiber o. ä. gedrückt werden.



### Pr cautions

- Choisir soigneusement l'emplacement de l'installation afin que l'appareil ne gêne pas la conduite normale du
- véhicule.

  Eviter d'installer l'appareil dans un endroit exposé à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ou à de la poussière, saleté ou vibrations violentes.

  Pour garantir un montage sûr, n'utiliser que le matériel fourm.

### Retrait et pose de la fa ade (4) Avant d'installer l'appareil, déposer la facad

4-A Pour la retirer

Avant de déposer la façade, ne pas oublier d'appuyer
sur (OFF). Appuyer ensuite sur (RELEASE), puis faire
glisser la façade légèrement vers la gauche et enlever la
façade en tirant à soi.

4-B Pour la fixer
Fixez la partie (a) de la façade sur la partie (a) de l'appareil, comme indiqué sur l'illustration, puis appuyez sur le côté gauche jusqu'au déclic.

# Exemple de montage (5)

Installation dans le tableau de bord

Avertissement en cas donstallation dans une voiture dont le contact ne comporte pas de position ACC (accessoires)

Appuyez sur la touche GFF de l'appareil per deux secondes pour désactiver l'affichage de l'hortoge après avoir couple le moteur. Si vous n'appuyez que brièvement sur GFF. l'affichage de l'hortoge ne disparait pas, ce qui provoque la décharge de la batterie.

## Touche RESET

Quand l'installation et les raccordements sont terminé appuyer sur la touche RESET avec un stylo à bille, etc.



### Precauzioni

- Procauzioni
  Secgliere con attenzione la posizione per
  l'instaliazione in modo che l'apparecchio non
  interferisca on he operazioni di guida del conducente
  l'ivitare di instaliare l'apparecchio dove sia soggetto a
  getto di aria calda dell'impianto di riscaldamento, o
  dove posa sesser soggetto a polvere, sporco e
  vibrazioni eccessive.
  Villitzare solo il materiale di montaggio in dotazione
  per un'instaliazione stabile e sicura.

Regolazione dell'Angolo di montaggio Regolare l'angolo di montaggio in modo che sia inferiore a 20°.

### Come rimuovere e reinserire il pannello anteriore (4)

Prima di installare l'apparecchio rim pannello anteriore.

Prima di rimuovere il pannello anteriore, premere OFF). Premere (RELEASE), quindi far scorrere leggermente il pannello anteriore verso sinistra e tirarlo verso di sé.

A-B Per reinserirlo
Applicare la parte ® del pannello anteriore alla parte ®
dell'apparecchio come mostrato nell'illustrazione e
premere il lato sinistro fino a sentire uno scatto.

Esempio di montaggio (5)

Informazioni importanti per

# quando si effettua I Õnstallazione su un Õuto sprovvista della posizione ACC sul Õnterruttore di accensione

Assicurard di premere (F) sull'apparecchio per due secondi per spegnere il display tell'orologio dopo nel il motore e stato spent. Se si preme (F) solo per un attimo, il display dell'orologio nen si spegne causando in questo modo lo scaricamento della batteria.

## Tasto RESET



- Sies de installatieplaats zorgvuldig zodat het toestel de bestuurder niet hinder tijdens het rijden.
  Installeer het apparaat niet op plaatsen waar het biolootgesteld wordt aan hoge temperaturen, bv. in direct zonlicht of bij de warme luchtstroom van de autoreverwaring, aan sterke trillingen, of waar het in direct zonlicht of bij de warme luchtstroom van de autoreverwaring, aan sterke trillingen, of waar het in 40 oktober 100 oktober

Maximale montagehoek Installeer het apparaat nooit onder een hoek van meer dan 20° met het horizontale vlak.

# Verwijderen en bevestigen van het afneembare voorpaneel (4)

Verwijder, alvorens met het instal het afneembare voorpaneel.

【■-A Verwijderen Vergeet niet, voordat u het voorpaneel verwijdert, eerst op (○FF) te drukken. Druk vervolgens op de (FELEASE) toets, schuif het voorpaneel iets naar links en trek het naar u toe.

₫-B Bevestigen
Breng deel @ van het voorpaneel aan op deel @ van het
apparaat zoals afgebeeld en druk op de linkerzijde tot
deze vastklikt.

# Montagevoorbeeld ( 5)

Opgelet bij het monteren in een

auto waarvan het contactslot geen ACC (accessory) stand heeft

Druk (OFF) op het toestel gedurende twee secon in om de klokweergave uit te schakelen na het afzetten van de motor.
Indien u slechts even op (OFF) drukt, verdwijnt de tijdindicatie niet waardoor de batterij uitgeput raakt.

## RESET-toets

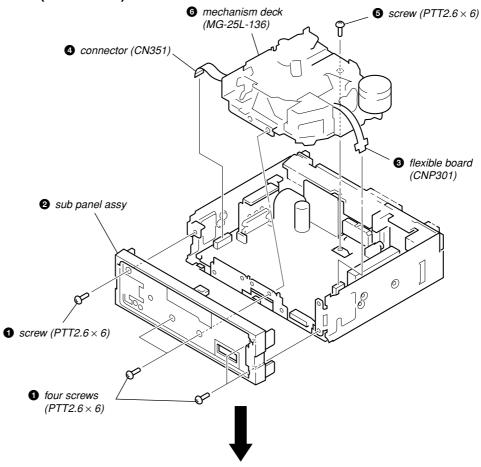
Druk, nadat u het apparaat heeft geïnstalleerd en de aansluitingen heeft gemaakt, met een balpen of een ander puntig voorwerp op de RESET-toets.



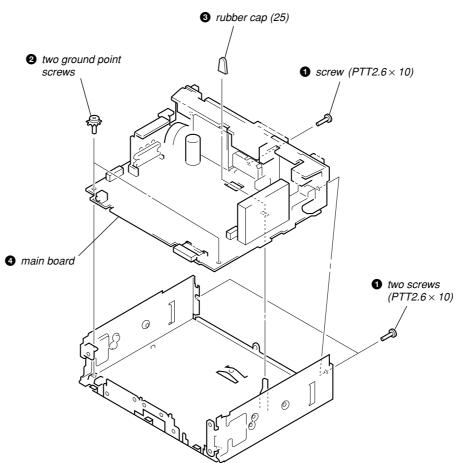
# SECTION 2 DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

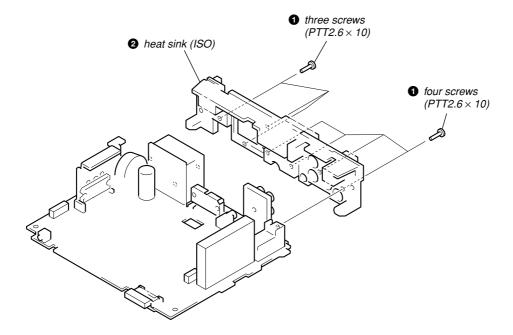
# **MECHANISM DECK (MG-25L-136)**



# MAIN BOARD



# HEAT SINK (ISO)

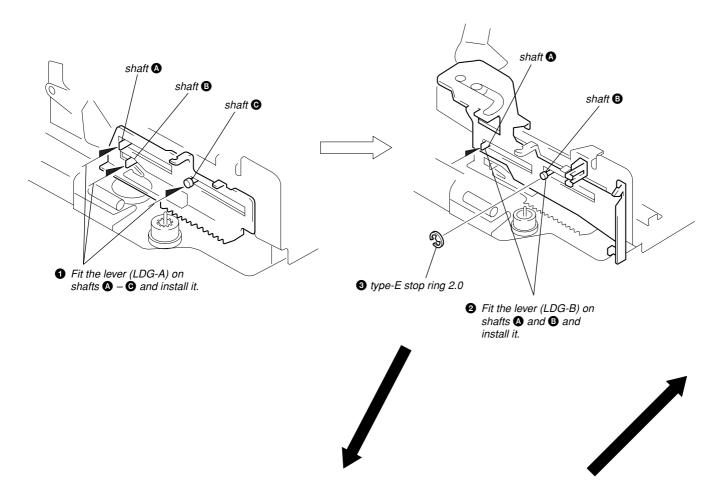


# SECTION 3 ASSEMBLY OF MECHANISM DECK

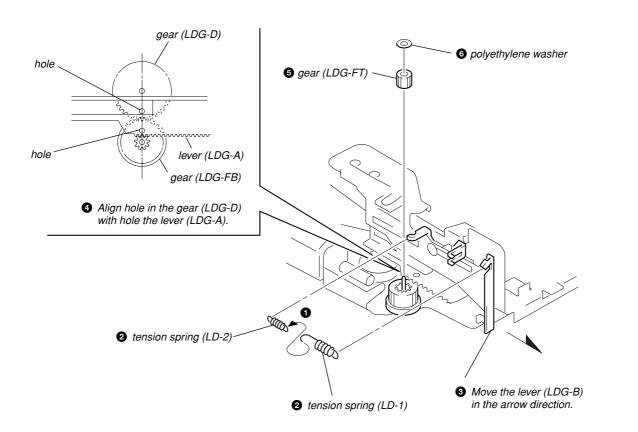
**Note:** Follow the assembly procedure in the numerical order given.

# **HOUSING** 7 Hold the hanger by bending the claw. 5 Fit projection on 6 part. 1 Install the catch to the hanger. 2 Install the hanger onto two claws of the housing. hanger 4 Fit claw on B part. 3 Put the housing 6 Fit projection on D part. under A part. housing **G** part 8 Hold the hanger by bending the claw. part part part **ARM (SUCTION)** 2 Move the arm (suction) in the arrow direction and fit on projection. projection 1 Fit the arm (suction) on the shaft.

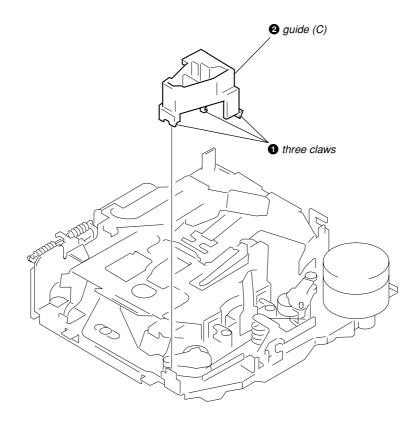
# LEVER (LDG-A) / (LDG-B)



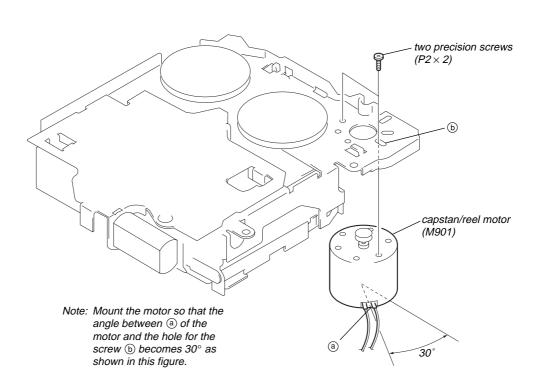
# **GEAR (LDG-FT)**



# GUIDE (C)



# MOUNTING POSITION OF CAPSTAN/REEL MOTOR (M901)



# XR-CA400/CA410 SECTION 4 MECHANICAL ADJUSTMENTS

 Clean the following parts with a denatured-alcohol-moistened swab:

> playback head pinch roller rubber belt capstan idler

- 2. Demagnetize the playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. The adjustments should be performed with the power supply voltage (14.4 V) unless otherwise noted.

# • Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Forward Back Tension	CQ-102C	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
Reverse	CQ-102RC	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Reverse Back Tension	CQ-102RC	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
FF, REW	CQ-201B	5.89 – 19.61 mN•m (60 – 200 g•cm) (0.83 – 2.78 oz•inch)

# • Tape Tension Measurement

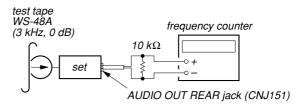
Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 60 g (more than 2.12 oz)
Reverse	CQ-403R	more than 60 g (more than 2.12 oz)

# SECTION 5 ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION

0 dB=0.775 V

# **Tape Speed Adjustment Setting:**



### **Procedure:**

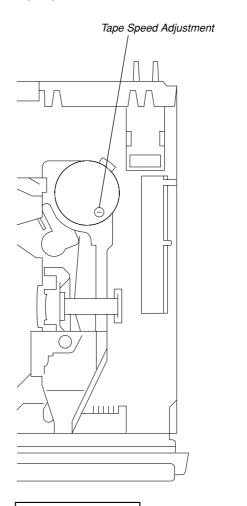
- 1. Put the set into the FWD PB mode.
- 2. Adjust adjustment resistor for inside capstan motor so that the reading on the frequency counter becomes 3,000 Hz.

# Specification: Constant speed

Frequency counter
2,955 to 3,075 Hz

## Adjustment Location:

- SET UPPER VIEW -



# **TUNER SECTION**

Tuner section adjustments are done automatically in this set.

# SECTION 6 DIAGRAMS

# 6-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

# Note on Printed Wiring Board:

- c : parts extracted from the component side.
  e : parts extracted from the conductor side.
- Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

### Caution:

Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: Parts on the pattern face side seen from the parts face side seen from the parts face are indicated.

### Note on Schematic Diagram:

- All capacitors are in  $\mu F$  unless otherwise noted. pF:  $\mu \mu F$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $^{1/\!_{4}}W$  or less unless otherwise specified.
- panel designation.
- B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

no mark : FM

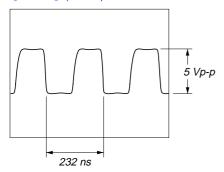
( ): MW/LW ⟨⟨ ⟩⟩: TAPE PL

- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
   Voltage variations may be noted due to normal production tolerances.
- · Circled numbers refer to waveforms.
- Signal path.

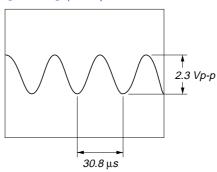
⇒ : FM ⇒ : MW/LW

- Waveforms
- MAIN Board -

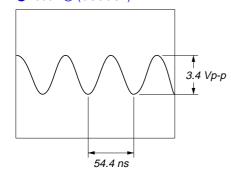
# 1 IC51 4 (OSCO)



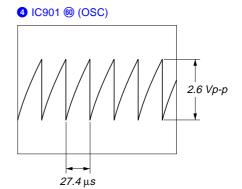
# 3 IC501 ( (XOUT)



# 2 IC501 12 (OSCOUT)

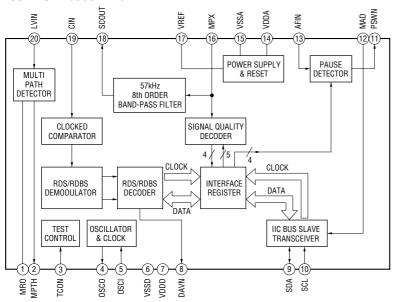


## - KEY Board -

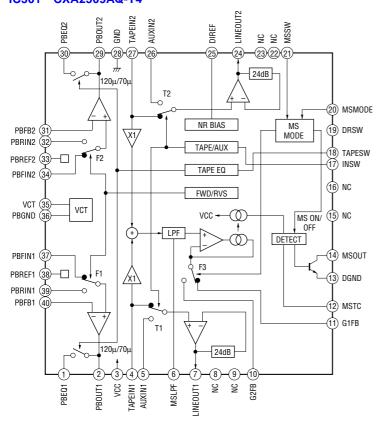


- IC Block Diagrams
- MAIN Board -

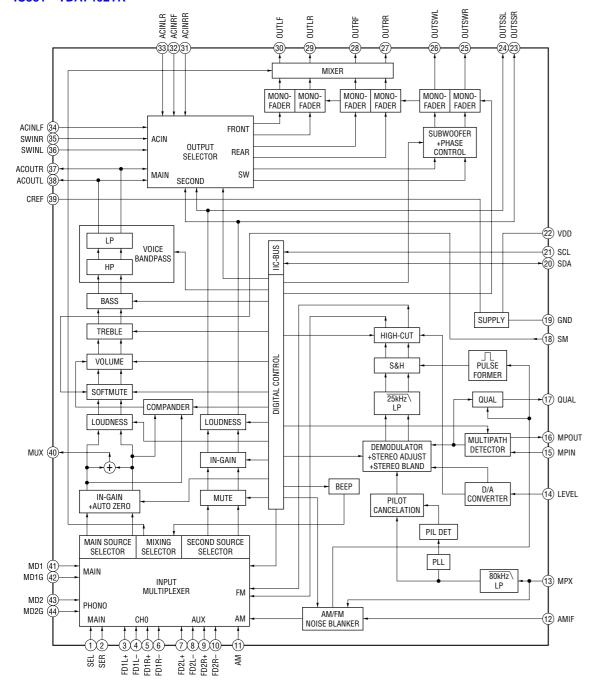
# IC51 SAA6588T-118



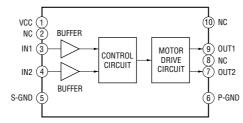
# IC301 CXA2509AQ-T4



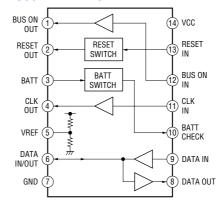
# IC331 TDA7402TR



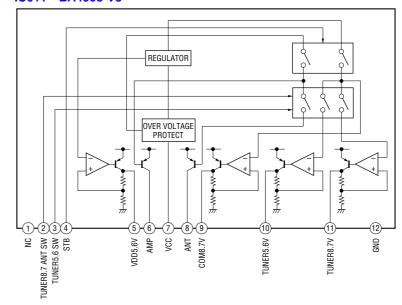
# IC351 LB1930M-TLM



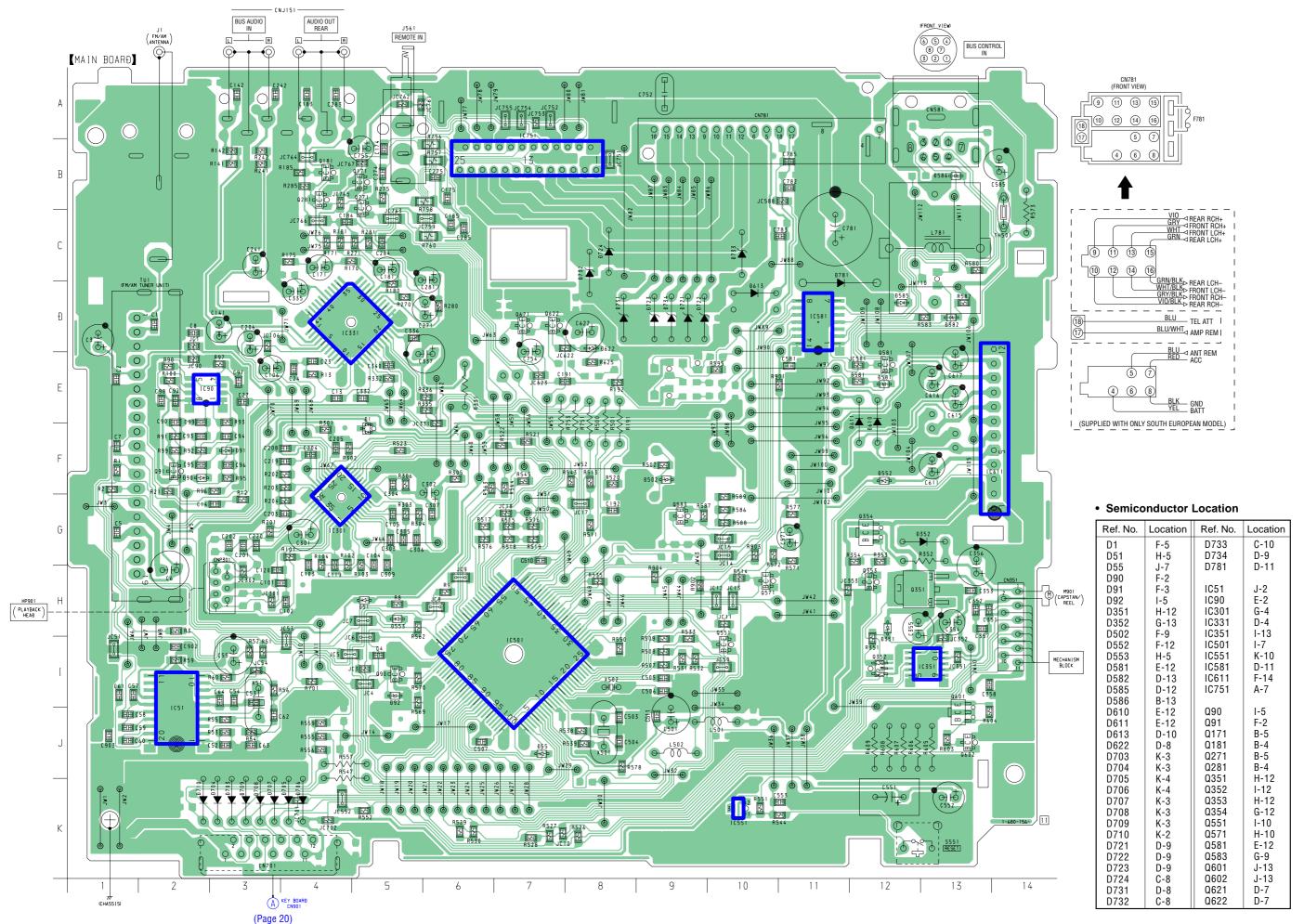
# IC581 MM1175XFF



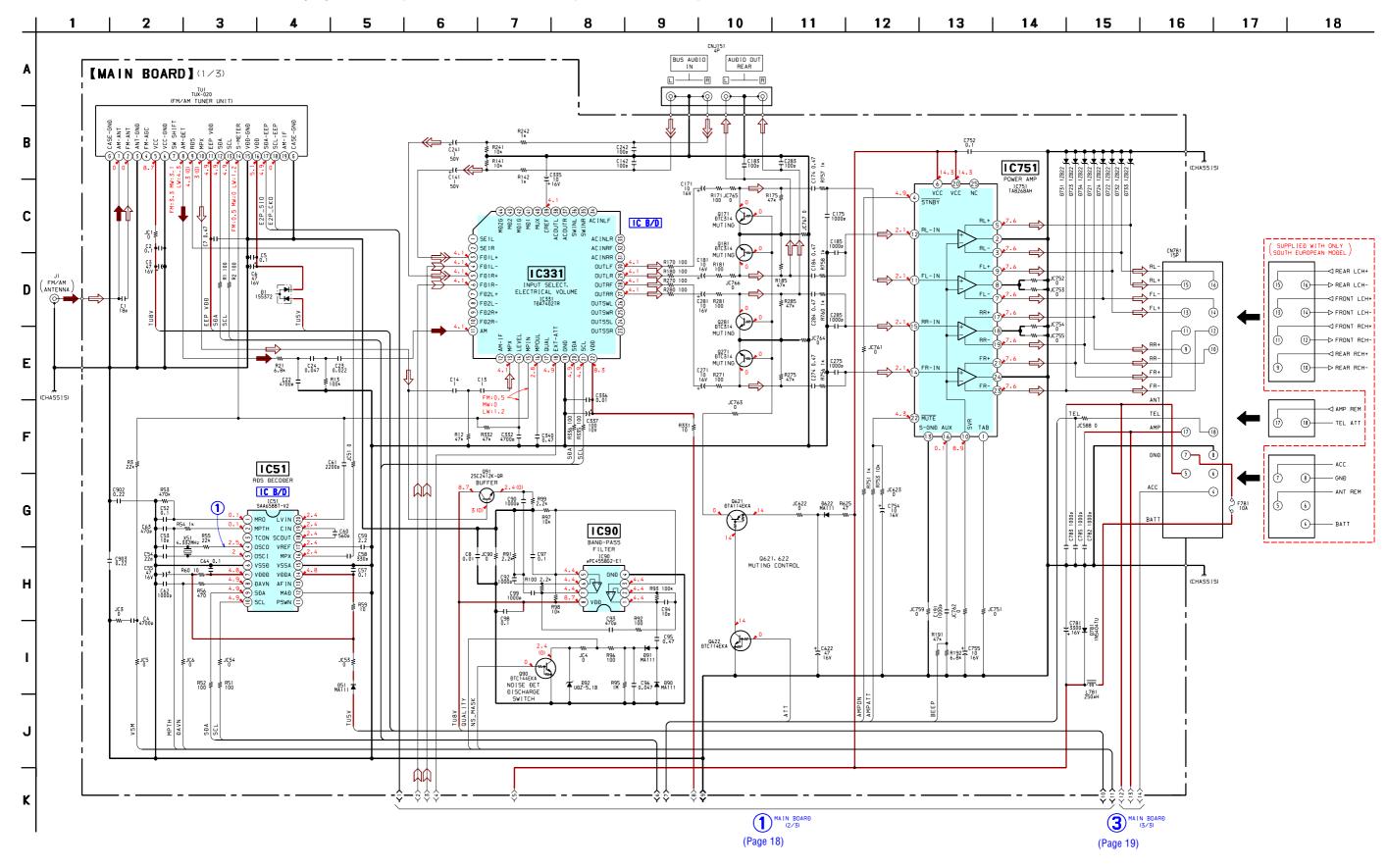
# IC611 BA4908-V3



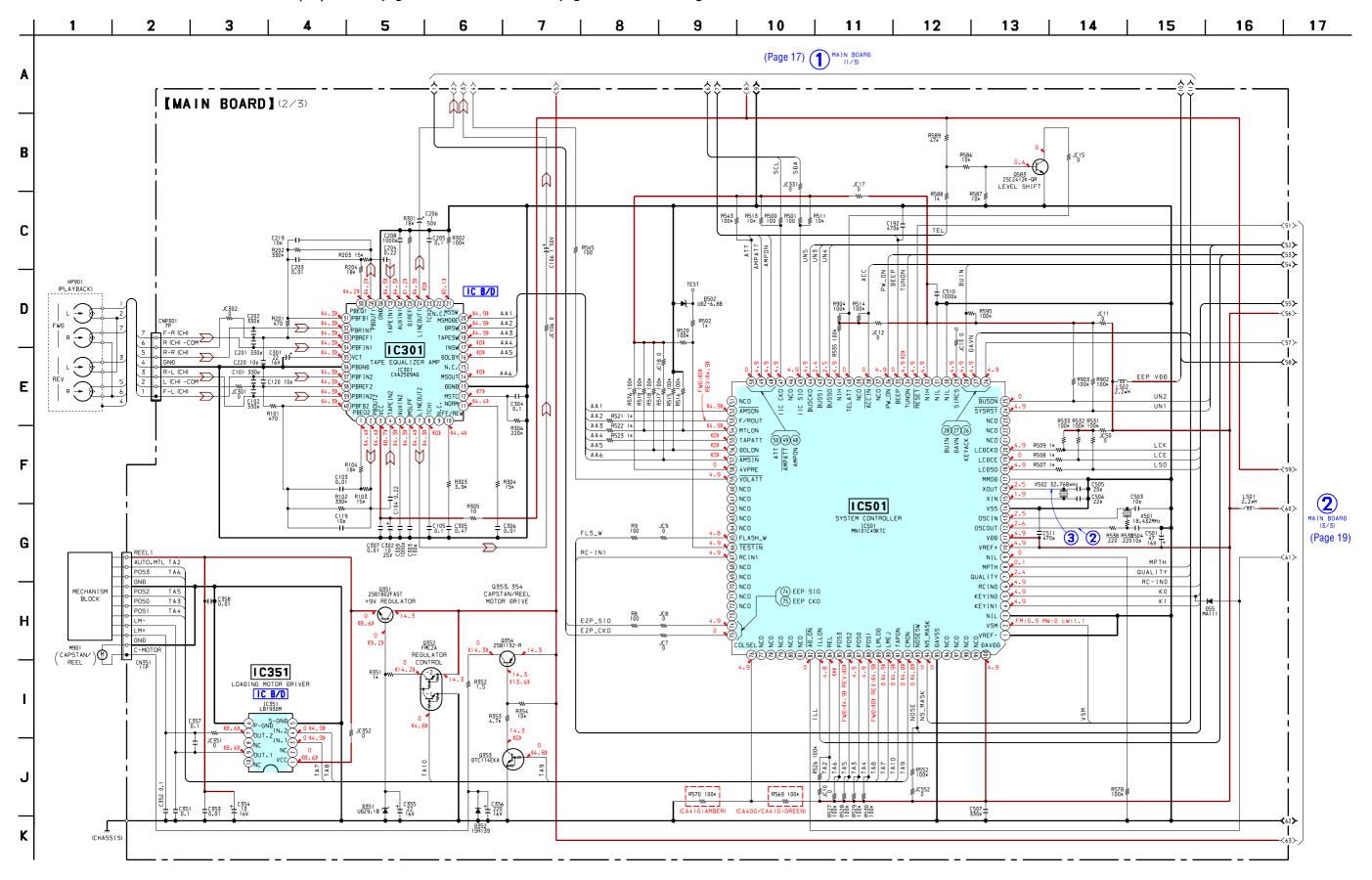
# 6-2. PRINTED WIRING BOARD - MAIN Board -

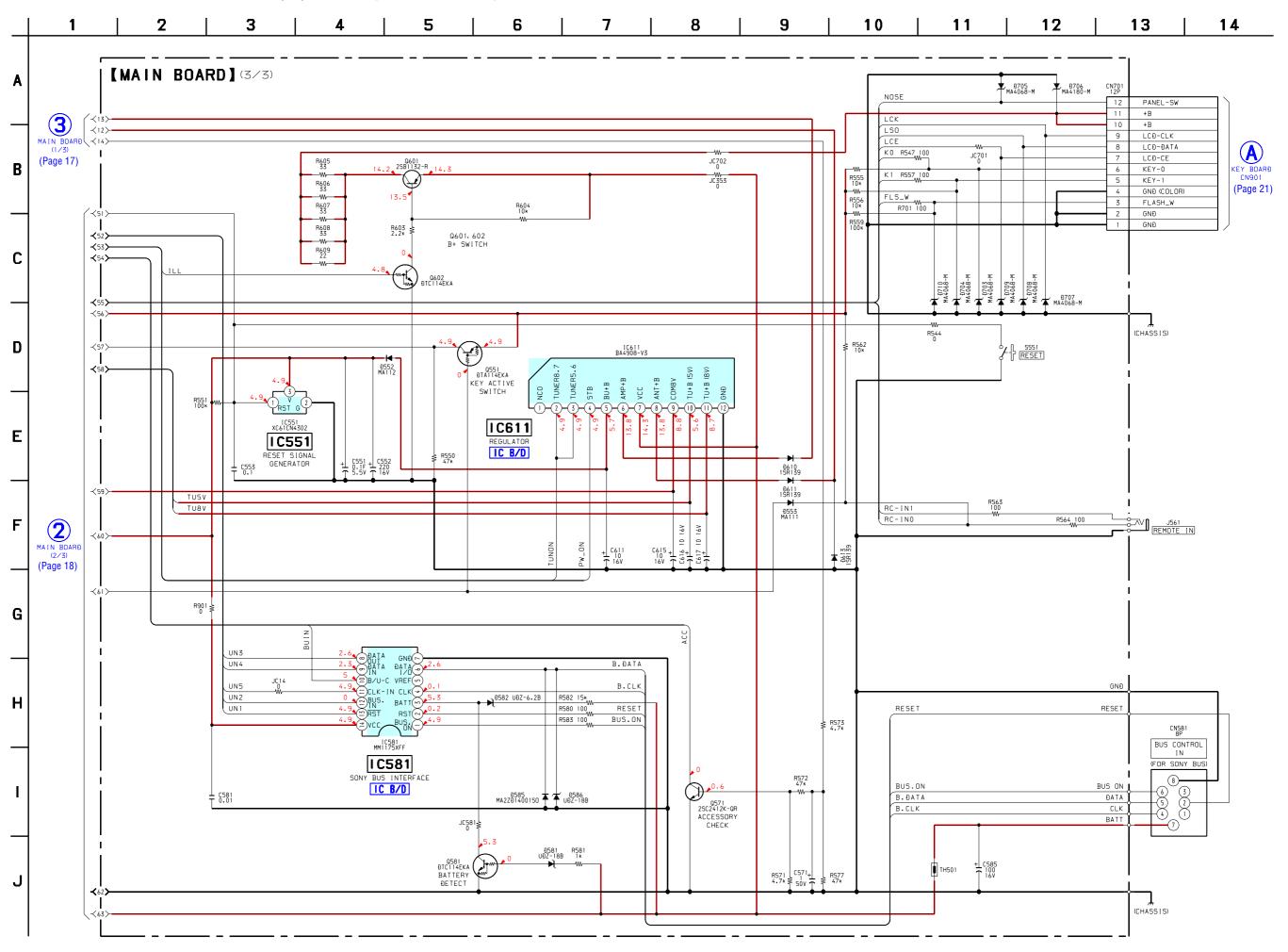


# 6-3. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 13 for Waveform. • See page 14 for IC Block Diagrams.

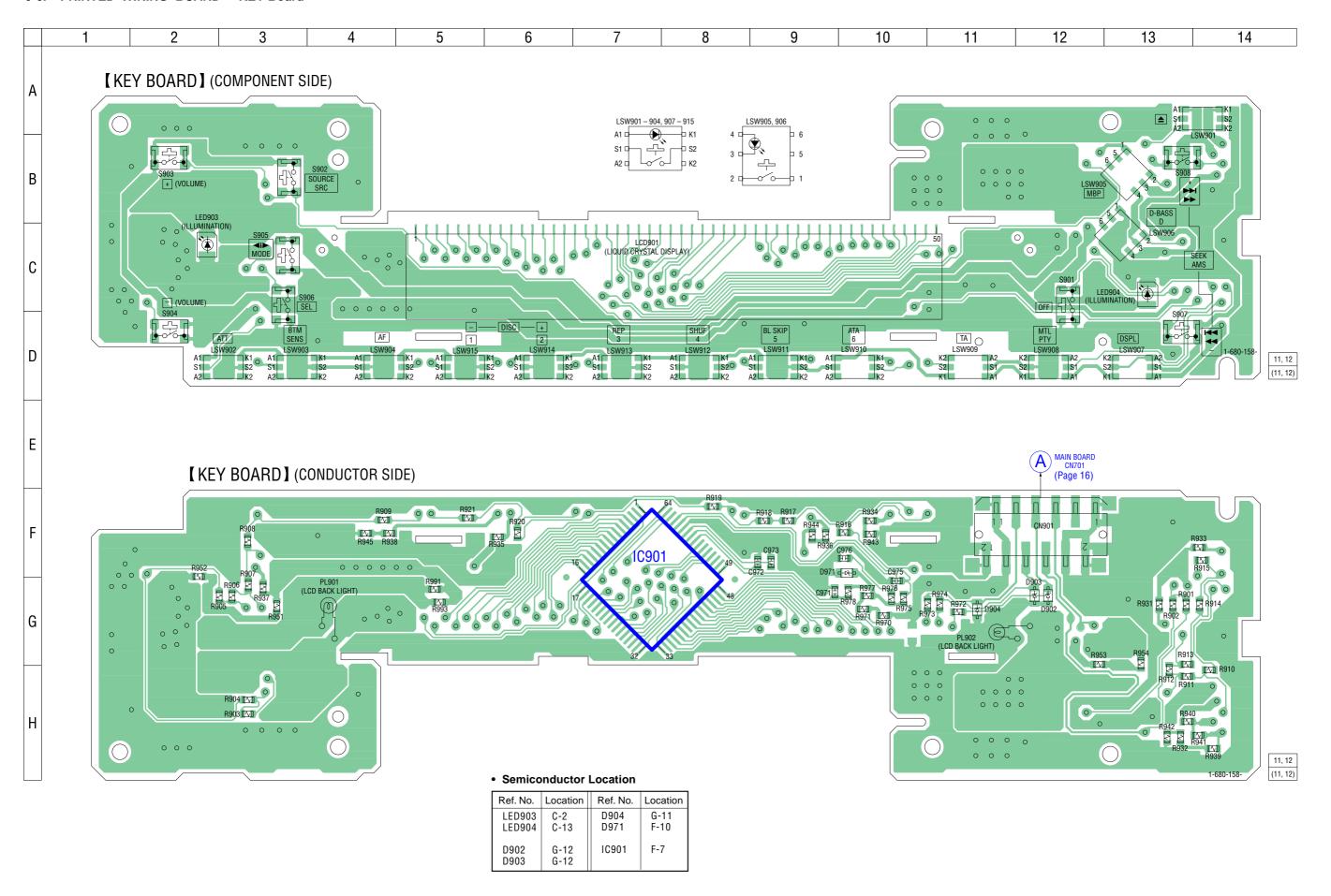


# 6-4. SCHEMATIC DIAGRAM - MAIN Board (2/3) - • See page 13 for Waveforms. • See page 14 for IC Block Diagrams.

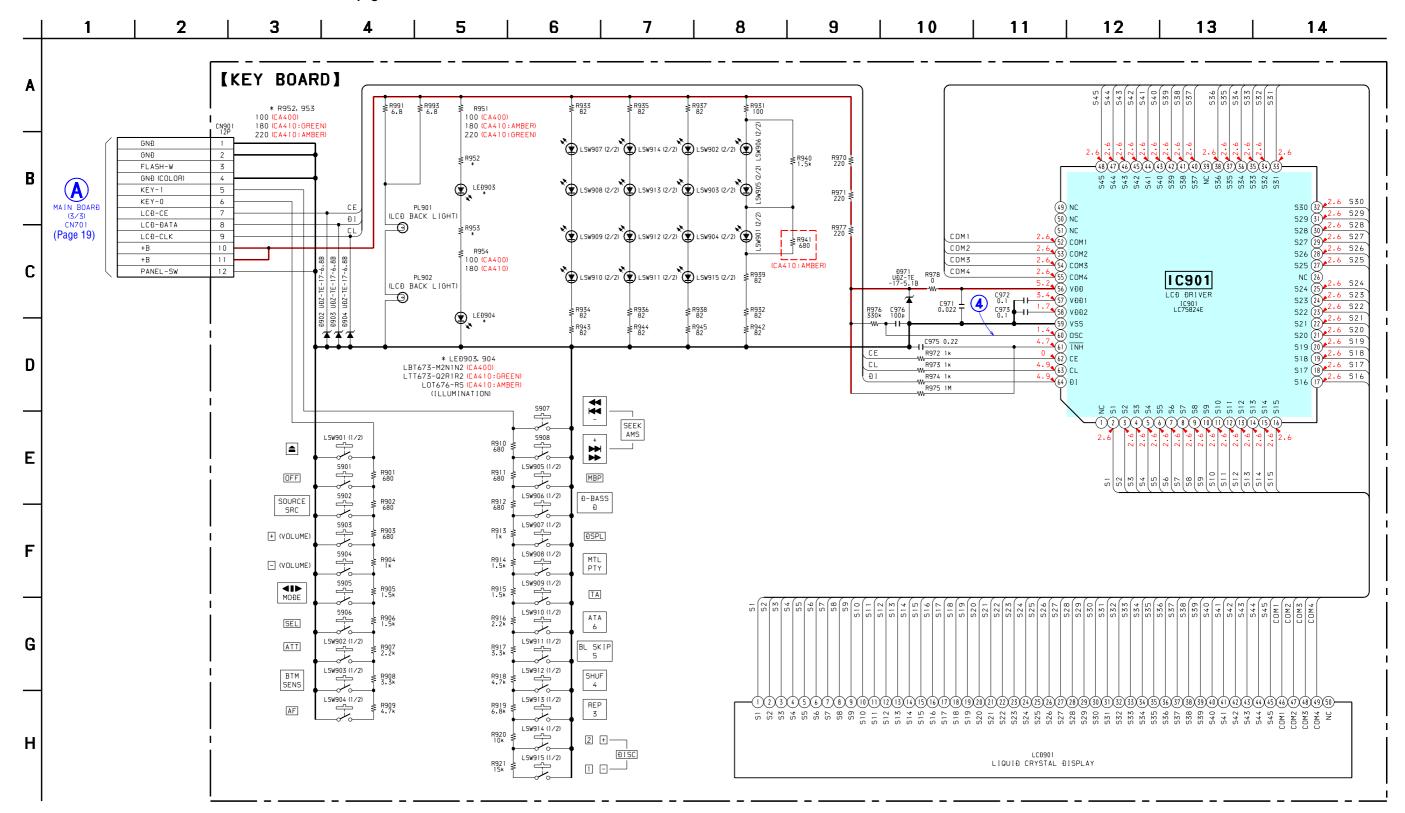




# 6-6. PRINTED WIRING BOARD - KEY Board -



# 6-7. SCHEMATIC DIAGRAM - KEY Board - • See page 13 for Waveform.



# 6-8. IC PIN FUNCTION DESCRIPTION

# • MAIN BOARD IC501 MN101C49KTC (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VREF-	I	Reference voltage (0V) input terminal (for A/D converter)
2	VSM	I	FM and AM signal meter voltage detection signal input from the FM/AM tuner unit (TU1) (A/D input)
3	NIL	I	Not used (fixed at "L")
4	KEYIN1	I	Key input terminal (A/D input) S907, S908, LSW905 to LSW915 (SEEK/AMS – ► ► SEEK/AMS + ► NBP, D-BASS D, DSPL, MTL PTY, TA, ATA 6, BL SKIP 5, SHUF 4, REP 3, 2 DISC +, 1 DISC – keys input)
5	KEYIN0	I	Key input terminal (A/D input) S901 to S906, LSW901 to LSW904 (OFF, SRC SOURCE, + (VOLUME), − (VOLUME), MODE ◀I▶, SEL, ♠, ATF, BTM SENS, AF keys input)
6	RCIN0	I	Rotary remote commander key input terminal (A/D input)
7	QUALITY	I	Noise level detection signal input at SEEK mode (A/D input)
8	MPTH	I	Multi-path detection signal input from the RDS decoder (IC51) (A/D input)
9	NIL	I	Not used (fixed at "L")
10	VREF+	I	Reference voltage (+5V) input terminal (for A/D converter)
11	VDD	_	Power supply terminal (+5V)
12	OSCOUT	0	Main system clock output terminal (18.432 MHz)
13	OSCIN	I	Main system clock input terminal (18.432 MHz)
14	VSS	_	Ground terminal
15	XI	I	Sub system clock input terminal (32.768 kHz)
16	XO	0	Sub system clock output terminal (32.768 kHz)
17	MMOD	I	Selection signal of memory mode input terminal "L":single chip mode (fixed at "L")
18	LCDSO	0	Serial data output to the liquid crystal display driver (IC901)
19	LCDCE	0	Chip enable signal output to the liquid crystal display driver (IC901) "H" active
20	LCDCKO	0	Serial data transfer clock signal output to the liquid crystal display driver (IC901)
21 to 23	NCO	0	Not used (open)
24	SYSRST	0	Reset signal output to the SONY bus interface (IC581) "L": reset
25	BUSON	0	Bus on/off control signal output to the SONY bus interface (IC581) "L": bus on
	Beson		Input of acknowledge signal for the key entry Acknowledge signal is input to accept function
26	KEYACK	I	and eject keys in the power off status On at input of "H"
27	DAVN	I	Synchronized detection signal of RDS data block input from the RDS decoder (IC51) "H" active
28	BUIN	I	Battery detection signal input from the SONY bus interface (IC581) "L" is input at low voltage
29	SIRCS	I	SIRCS remote control signal input terminal Not used (open)
30, 31	NIL	I	Not used (fixed at "L")
32	NIH	I	Not used (fixed at "H")
33	RESET	I	System reset signal input from the reset signal generator (IC551) and reset switch (S551) "L": reset "L" is input for several 100 msec after power on, then it changes to "H"
34	TUNON	0	Tuner system power supply on/off control signal output "H": tuner power on
35	BEEP	0	Beep sound drive signal output to the power amplifier (IC751)
36	PW_ON	0	Main system power supply on/off control signal output "H": power on
37	NCO	I	Not used (open)
38	ACCIN	I	Accessory detection signal input "L": accessory on
39	NCO	0	Not used (open)
40	TELATT	I	Telephone attenuate signal input At input of "H", the signal is attenuated by –20 dB
41	NIH	I	Not used (fixed at "H")
42	BUSSO	0	Serial data output to the SONY bus interface (IC581)
43	BUSSI	I	Serial data output to the SONY bus interface (IC581)  Serial data input from the SONY bus interface (IC581)
73	וממטת	1	Serial data iliput from the SON Fous illicitace (ICSOF)

Pin No.	Pin Name	I/O	Description
44	BUSCKO	0	Serial data transfer clock signal output to the SONY bus interface (IC581)
45	IIC SIO	I/O	Two-way data IIC bus with the FM/AM tuner unit (TU1), RDS decoder (IC51) and electrical volume (IC331)
46	NCO	0	Not used (open)
47	IIC CKO	0	IIC bus clock signal output to the FM/AM tuner unit (TU1), RDS decoder (IC51) and electrical volume (IC331)
48	AMPON	О	Standby on/off control signal output to the power amplifier (IC751) "L": standby mode, "H": amplifier on
49	AMPATT	0	Muting on/off control signal output to the power amplifier (IC751) "L": muting on
50	ATT	0	Audio line muting on/off control signal output "H": muting on
51	NCO	0	Not used (open)
52	AMSON	О	Tape auto music sensor control signal output to the CXA2509AQ (IC301) "L": auto music sensor on
53	F/ROUT	О	Forward/reverse control signal output to the CXA2509AQ (IC301) "L": reverse direction, "H": forward direction
54	MTLON	0	METAL on/off control signal output to the CXA2509AQ (IC301) "H": METAL on
55	TAPATT	О	Tape muting on/off control signal output to the CXA2509AQ (IC301) "H": muting on Active at ATA, FF/REW mode
56	NCO	О	Not used (open)
57	AMSIN	I	Whether a music is present or not from CXA2509AQ (IC301) is detected at auto music sensor "L": music is present, "H": music is not present
58	NCO	0	Not used (open)
59	VOLATT	О	Pre amplifier muting on/off control signal output to the electrical volume (IC331) "L": muting on
60 to 64	NCO	0	Not used (open)
65	FLASH_W	I	Internal flash memory data write mode detection signal input terminal "L": data write mode Not used (open)
66	TESTIN	I	Setting terminal for the test mode "L": test mode, normally fixed at "H"
67	RCIN1	I	Rotary remote commander shift key input terminal "L": shift key on
68 to 73	NCO	0	Not used (open)
74	EEP SIO	I/O	Two-way data bus for tuner EEPROM with the FM/AM tuner unit (TU1)
75	EEP CKO	I/O	Two-way bus clock signal for tuner EEPROM with the FM/AM tuner unit (TU1)
76	COLSEL	I	Setting terminal for the illumination color "L": amber (XR-CA410: AMBER), "H": green (XR-CA400/CA410: GREEN)
77 to 81	NCO	0	Not used (open)
82	AD ON	О	A/D converter power control signal output terminal When the KEYACK (pin ®) that controls reference voltage power for key A/D conversion input is active, "L" is output from this terminal to enable the input
83	ILLON	О	Power on/off control signal output of the illumination LED and liquid crystal display driver (IC901) "H": power on
84	REL	I	Rotation detection signal input from supply reel sensor and take-up reel sensor on the mechanism deck
85	POS3	I	DOC2, %I ", DEM and EHECT and 1. %II". ad
86	POS2	I	Tape position (EJECT/FF/REW/REV/POS2: "L": REV and EJECT mode, "H": others mode POS2: "L": REW mode, "H": others mode
87	POS0	I	POS0: "L": EJECT mode, "H": others mode
88	POS1	I	POS1: "L": FF and FWD mode, "H": others mode
89	LMLOD	О	Motor drive signal output to the loading motor drive (IC351) "H" active (For the loading direction and forward side operation) *1
90	LMEJ	0	Motor drive signal output to the loading motor drive (IC351) "H" active (For the eject direction and reverse side operation) *1

Pin No.	Pin Name	I/O	Description
91	TAPEON	О	Power on/off control signal output of the loading motor drive (IC351) and capstan/reel motor (M901) "H": motor on
92	CMON	О	Capstan/reel motor (M901) drive signal output terminal "H": motor on
93	NOSESW	I	Front panel block remove/attach detection signal input "L": front panel is attached, "H": front panel is removed
94	NS_MASK	О	Discharge control signal output for the noise detection circuit "H": discharge
95	DAVSS	_	Ground terminal (for D/A converter)
96 to 99	NCO	О	Not used (open)
100	DAVCC		Power supply terminal (+5V) (for D/A converter)

# \*1 Loading motor control

Mode Terminal	STOP	LOADING/ FORWARD	EJECT/ REVERSE	BRAKE
LMLOD (pin 89)	"L"	"H"	"L"	"H"
LMEJ (pin 🗐 )	"L"	"L"	"H"	"H"

# SECTION 7 EXPLODED VIEWS

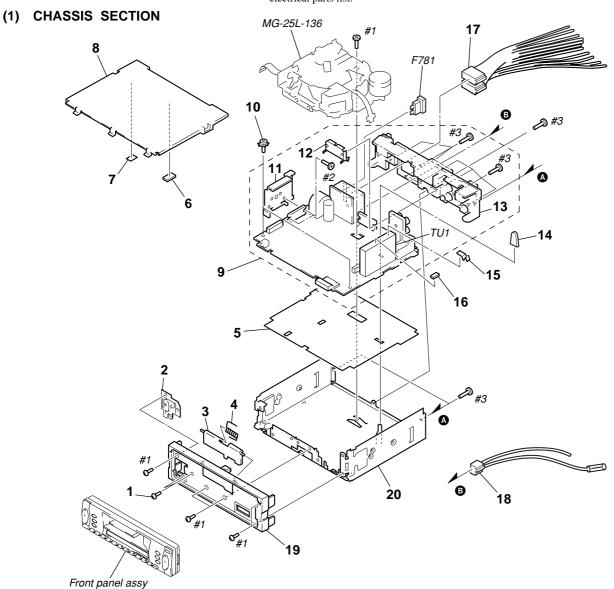
## NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) . . . (RED)  $\uparrow$ 

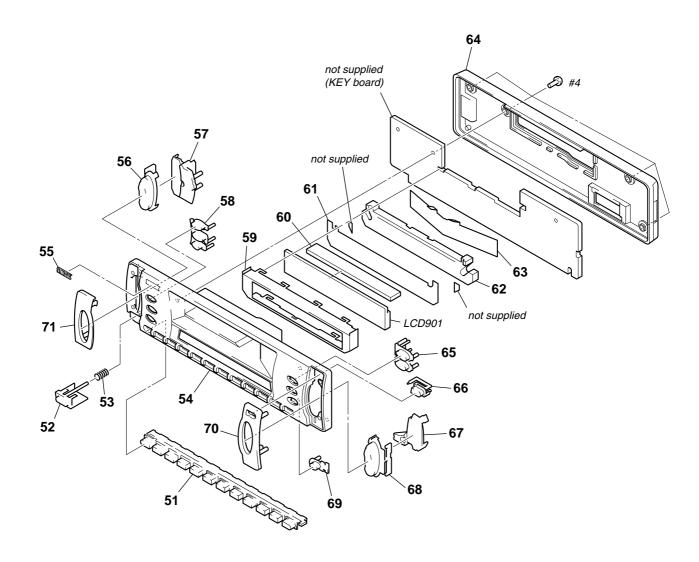
Parts Color Cabinet's Color

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.



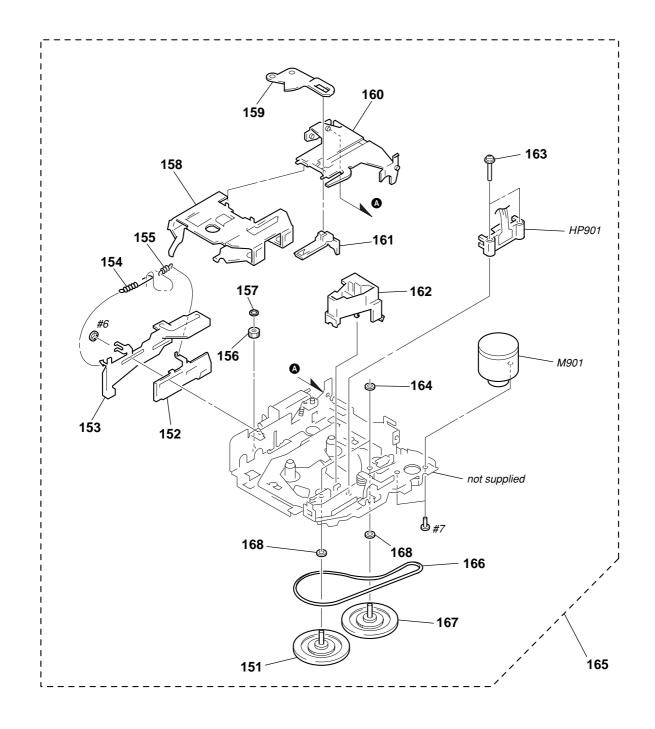
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
1	3-042-244-11	SCREW (T)		* 12	3-040-998-01	BRACKET (IC)	
2	X-3370-437-1	LOCK ASSY		* 13	3-224-899-01	HEAT SINK (ISO)	
3	3-027-437-51	DOOR, CASSETTE		14	3-012-859-01	CAP (25), RUBBER	
4	3-935-003-01	SPRING, TORSION		* 15	3-045-878-01	PLATE (TU), GROUND	
* 5	3-033-846-01	INSULATED PLATE		* 16	3-045-877-01	CUSHION (TU)	
* 6 * 7		SPACER (COVER R) SPACER (COVER L)		17	1-782-381-11	CORD (WITH CONNECTOR) (ISC	P&S) outh European)
* 8	3-040-995-11	,		18	1-777-989-41	CORD (WITH CONNECTOR) (AM	. ,
* 9	A-3326-771-A	MAIN BOARD, COMPLETE (CA410: AN	ЛBER)	19	3-224-862-01	PANEL, SUB	,
* 9	A-3326-772-A	MAIN BOARD, COMPLETE	•	20	3-009-813-52	CHASSIS	
		(CA400/CA410	: GREEN)	F781	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUS	E) (10A)
10 * 11		SCREW (+PTT 2.6X6), GROUND POIN HEAT SINK (REG)	Т	TU1	A-3220-812-A	FM/AM TUNER UNIT (TUX-020)	

# (2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
51	3-225-123-01	BUTTON (PRESET/CE)		* 61	3-224-871-11	ILLUMINATOR (LCD) (CA410)	
		(ATT. SENS. AF. 1. 2. 3. 4. 5. 6. TA. P	TY. DSPL)	* 62	3-224-870-01	PLATE (LCD), LÌGHT GUIDE	
52	3-225-125-01	BUTTON (RELEASE/CE) (RELEASE)	,	* 63	3-224-895-01	REFLECTOR (LCD)	
53	3-231-816-01	SPRING (RELEASE)		64	3-224-861-01	PANEL, FRONT BACK	
54	3-224-898-01	PANEL, FRONT (CA400)		65	3-225-121-01	BUTTON (R/CE) (MBP. D)	
54	3-224-898-11	PANEL, FRONT (CA410)					
				66	3-225-124-01	BUTTON (EJECT/CE) (♠)	
55		EMBLEM (NO.2.5), SONY		* 67	3-225-128-01	PLATE (R), LIGHT GUIDE	
56	3-225-118-01	BUTTON (+/-) (CA400)		68	3-225-119-01	BUTTON (S/A)	
56	3-225-118-11	BUTTON (+/-) (CA410)				(+ ▶► SEEK AMS. ◀◀ ▮◀◀ •	-) (CA400)
* 57	3-225-127-01	PLATE (L), LIGHT GUIDE		68	3-225-119-11	BUTTON (S/A)	
58	3-225-120-01	BUTTON (L/CE) (SRC. MODE. SEL)				(+ ▶►I ►►. SEEK AMS.   ■ I	-) (CA410)
				69	3-225-122-01	BUTTON (OFF)	
* 59		PLATE (LCD), GROUND					
60	1-694-781-11	CONDUCTIVE BOARD, CONNECTION		70	3-225-117-01	ESCUTCHEON (R)	
* 61	3-224-871-01	ILLUMINATOR (LCD) (CA400)		71	3-225-116-01	ESCUTCHEON (L)	
				LCD901	1-804-298-11	DISPLAY PANEL, LIQUID CRYSTAL	

# (3) MECHANISM DECK SECTION (MG-25L-136)



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
151	A-3291-667-A	CLUTCH (FR) ASSY		161	3-933-346-01	CATCHER	
* 152	3-019-130-01	LEVER (LDG-A)		162	3-933-344-01	GUIDE (C)	
* 153	3-019-131-01	LEVER (LDG-B)		163	3-014-798-01	SCREW (HEAD), SPECIAL	
154	3-020-539-01	SPRING (LD-1), TENSION		164	3-364-151-01	WASHER	
155	3-020-540-01	SPRING (LD-2), TENSION		165	A-3220-811-A	MECHANISM DECK ASSY	
156	3-020-542-01	GEAR (LOADING FT)		166	3-017-302-01	BELT (25)	
157	3-341-753-11	WASHER, POLYETHYLENE		167	3-026-636-01	FLYWHEEL (F)	
158	3-020-533-01	HOUSING		168	3-701-437-21	WASHER	
* 159	3-020-532-01	ARM (SUCTION)		HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
160	3-020-534-01	HANGER		M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REE	L)

# SECTION 8 ELECTRICAL PARTS LIST

KEY

## NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

 Items marked "\*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

 $\begin{array}{lll} \text{In each case, u: $\mu$, for example:} \\ uA. & : \mu A. & uPA. : \mu PA. . \\ uPB. & : \mu PB. & uPC. : \mu PC. . \\ uPD. & : \mu PD. . \end{array}$ 

• CAPACITORS uF: µF

• COILS uH: μH When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description KEY BOARD ********	<u>Remark</u>	<u>E</u>
* * *	3-224-870-01 3-224-871-01 3-224-871-11	CONDUCTIVE BOARD, CONNECTION PLATE (LCD), LIGHT GUIDE ILLUMINATOR (LCD) (CA400) ILLUMINATOR (LCD) (CA410) REFLECTOR (LCD)		
*	3-224-896-02	PLATE (LCD), GROUND		
		< CAPACITOR >		
C971 C972 C973 C975 C976	1-107-826-11 1-107-826-11 1-127-715-11		25V 16V 16V 16V 50V	
		< CONNECTOR >		
CN901	1-794-312-11	PIN, CONNECTOR 12P		
		< DIODE >		
D902 D903 D904 D971	8-719-056-83 8-719-056-83	DIODE UDZ-TE-17-6.8B DIODE UDZ-TE-17-6.8B DIODE UDZ-TE-17-6.8B DIODE DTZ5.1B		
		< 10 >		
IC901	8-759-366-34	IC LC75824E		
		< LIQUID CRYSTAL DISPLAY >		
LCD901	1-804-298-11	DISPLAY PANEL, LIQUID CRYSTAL		
		< LED >		
LED903	8-719-082-69	LED LBT673-M2N1N2 (ILLUMINATIO	,	
LED903	8-719-082-71	LED LOT676-RS (ILLUMINATION)	(CA400)	
LED903	8-719-084-33	LED LTT673-Q2R1R2 (ILLUMINATIO		
LED904	8-719-082-69		,	
LED904	8-719-082-71	LED LOT676-RS (ILLUMINATION) (CA410	(CA400) : AMBER)	

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
LED904	8-719-084-33	LED LTT673-Q2R1R2 (ILLUMIN	
		(0	CA410: GREEN)
		CMITOLI	
		< SWITCH >	
LSW901	1-771-882-11	SWITCH, TACTILE (WITH LED) (	<b>(</b>
		(C	CA410: AMBER)
LSW901	1-786-106-11	SWITCH, TACTILE (WITH LED) (	
1 SW902	1-771-882-11	SWITCH, TACTILE (WITH LED) (	CA410: GREEN)
2011002		. , , ,	A410: AMBER)
LSW902	1-786-106-11	SWITCH, TACTILE (WITH LED) (	,
I CMOOO	1 771 000 11	,	CA410: GREEN)
L5W903	1-771-882-11	SWITCH, TACTILE (WITH LED) (	BTW, SENS) CA410: AMBER)
		(0	ATIO. AMBEIL
LSW903	1-786-106-11	SWITCH, TACTILE (WITH LED) (	
1.004004	1 771 000 11		CA410: GREEN)
L5W904	1-771-882-11	SWITCH, TACTILE (WITH LED) (	AF) CA410: AMBER)
LSW904	1-786-106-11	SWITCH, TACTILE (WITH LED) (	,
		,	CA410: GREEN)
	1-771-500-21	SWITCH, KEYBOARD (WITH LEE	
LSW906	1-771-500-21	SWITCH, KEYBOARD (WITH LED	J) (D-BASS, D)
LSW907	1-771-882-11	SWITCH, TACTILE (WITH LED) (	DSPL)
		,	CA410: AMBER)
LSW907	1-786-106-11	SWITCH, TACTILE (WITH LED) (	
I SW908	1-771-882-11	SWITCH, TACTILE (WITH LED) (	CA410: GREEN)
LOWGOO	1 771 002 11		A410: AMBER)
LSW908	1-786-106-11	SWITCH, TACTILE (WITH LED) (	
I CMOOO	1 771 000 11	`	CA410: GREEN)
L5W909	1-771-882-11	SWITCH, TACTILE (WITH LED) (	CA410: AMBER)
		(0	ATTO: AMBERT
LSW909	1-786-106-11	SWITCH, TACTILE (WITH LED) (	,
1.074040	1 771 000 11		CA410: GREEN)
L5W910	1-771-882-11	SWITCH, TACTILE (WITH LED) (	AIA, 6) GA410: AMBER)
LSW910	1-786-106-11	SWITCH, TACTILE (WITH LED) (	,
		•	CA410: GREEN)
LSW911	1-771-882-11	SWITCH, TACTILE (WITH LED) (	
I SW911	1-786-106-11	SWITCH, TACTILE (WITH LED) (	CA410: AMBER)
LOWSII	. 700 100 11	, , ,	CA410: GREEN)
		·	
LSW912	1-771-882-11	SWITCH, TACTILE (WITH LED) (	
		(U	CA410: AMBER)

LSW912 1-786-106-11 SWITCH, TACTILE (WITH LED) (SHUF, 4)

(CA400/CA410: GREEN)

# KEY

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
LSW913	1-771-882-11	SWITCH, TACTIL	E (WITH LE	D) (REP, 3	3)	R942	1-216-808-11	METAL CHIP	82	5%	1/16W
					: AMBER)	R943	1-216-808-11		82	5%	1/16W
LSW913	1-786-106-11	SWITCH, TACTIL	•	, .	*	R944	1-216-808-11	METAL CHIP	82	5%	1/16W
I CW014	1 771 000 11	SWITCH, TACTIL		00/CA410		DO4E	1 016 000 11	METAL CHID	00	E0/	1 /1 C\M
L5W914	1-771-002-11	SWITCH, TACTIL	E (WIIH LE		: AMBER)	R945 R951	1-216-808-11 1-216-809-11		82 100		1/16W 1/16W
				(07410.	AIVIDLIT)	11331	1-210-003-11	WEIAL OIII	100	J /0	(CA400)
LSW914	1-786-106-11	SWITCH, TACTIL	E (WITH LE	D) (2, DIS	SC +)	R951	1-216-812-11	METAL CHIP	180	5%	1/16W
			(CA4	00/CA410	: GREEN)					(CA410:	AMBER)
LSW915	1-771-882-11	SWITCH, TACTIL	E (WITH LE			R951	1-216-813-11	METAL CHIP	220	5%	1/16W
1.004045	4 700 400 44	014/17011 74.0711	- ////		: AMBER)	DOFO	1 010 000 11	METAL OLUB	400		GREEN)
LSW915	1-786-106-11	SWITCH, TACTIL		ט) (ז, טוכ 00/CA410		R952	1-216-809-11	METAL CHIP	100	5%	1/16W (CA400)
			(UA4)	00/GA410	. GREEN)						(UA400)
		< PILOT LAMP >				R952	1-216-812-11	METAL CHIP	180	5%	1/16W
										(CA410	: GREEN)
PL901	1-518-743-21	LAMP, PILOT (LC	D BACK LIG	,		R952	1-216-813-11	METAL CHIP	220		1/16W
DI 004	4 540 740 04		D D 4 0 1 / 1 / 1		: AMBER)	B050	4 040 000 44	METAL OLUB	100	`	AMBER)
PL901	1-518-743-31	LAMP, PILOT (LC	D BACK LIG	,	. ODEENI)	R953	1-216-809-11	METAL CHIP	100	5%	1/16W
PL901	1-518-743-41	LAMP, PILOT (LC	D BACK LIG		: GREEN)	R953	1-216-812-11	METAL CHIP	180	5%	(CA400) 1/16W
		LAMP, PILOT (LC			100)	11330	1 210 012 11	WEIAE OIII	100		GREEN)
. 2002			2 27.01. 2.0	,	: AMBER)	R953	1-216-813-11	METAL CHIP	220		1/16W
PL902	1-518-743-31	LAMP, PILOT (LC	D BACK LIG		,					(CA410:	AMBER)
				(CA410	: GREEN)						
DI 000	4 540 740 44	LAMB BUOT (LO	D DAOK 1 10	NIT) (04.4	100)	R954	1-216-809-11	METAL CHIP	100	5%	1/16W
PL902	1-518-743-41	LAMP, PILOT (LC	D BACK LIG	iHI) (CA4	100)	R954	1-216-812-11	METAL CHID	180	5%	(CA400) 1/16W
		< RESISTOR >				N904	1-210-012-11	METAL CHIP	100	370	(CA410)
		< 11E0101011 >				R970	1-216-813-11	METAL CHIP	220	5%	1/16W
R901	1-216-819-11	METAL CHIP	680	5%	1/16W	R971	1-216-813-11		220		1/16W
R902	1-216-819-11	METAL CHIP	680	5%	1/16W	R972	1-216-821-11	METAL CHIP	1K		1/16W
	1-216-819-11		680		1/16W						
	1-216-821-11		1K		1/16W	R973	1-216-821-11		1K		1/16W
R905	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R974	1-216-821-11		1K		1/16W
R906	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R975 R976	1-216-857-11 1-216-851-11		1M 330K		1/16W 1/16W
	1-216-825-11		2.2K		1/16W	R977	1-216-813-11		220		1/16W
	1-216-827-11		3.3K		1/16W					0,0	.,
R909	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R978	1-216-864-11	SHORT	0		
R910	1-216-819-11	METAL CHIP	680	5%	1/16W	R991	1-216-795-11		6.8		1/16W
D044	1 010 010 11	METAL OLUB	000	<b>5</b> 0/	4 /4 0 14 1	R993	1-216-795-11	RES-CHIP	6.8	5%	1/16W
R911 R912	1-216-819-11 1-216-819-11		680 680		1/16W 1/16W			< SWITCH >			
	1-216-821-11		1K		1/16W			< 3//11/11 >			
	1-216-823-11		1.5K		1/16W	S901	1-771-884-11	SWITCH, TACTILE	(OFF)		
	1-216-823-11		1.5K		1/16W	S902		SWITCH, TACTILE		JRCE)	
						S903		SWITCH, TACTILE	( (	//	
	1-216-825-11		2.2K		1/16W	S904		SWITCH, TACTILE			
	1-216-827-11		3.3K		1/16W	S905	1-//1-884-11	SWITCH, TACTILE	: (MODE ◀	<b>I</b> ►)	
R918 R919	1-216-829-11 1-216-831-11		4.7K 6.8K		1/16W 1/16W	S906	1-771-884-11	SWITCH, TACTILE	(SEL)		
	1-216-833-11		10K		1/16W	S907		SWITCH, TACTILE	` '	S <b>◄</b> ◀ <b>◄</b>	<b>⋖</b> -)
						S908		SWITCH, TACTILE			
	1-216-835-11		15K		1/16W	*******	********	******	******	******	*****
	1-216-809-11		100		1/16W						
R932	1-216-808-11		82		1/16W						
	1-216-808-11 1-216-808-11		82 82		1/16W 1/16W						
11304	1-210-000-11	WIL IAL UTIL	UL	J /0	1/1044						
R935	1-216-808-11	METAL CHIP	82	5%	1/16W						
	1-216-808-11		82		1/16W						
R937	1-216-808-11		82		1/16W						
	1-216-808-11		82		1/16W						
R939	1-216-808-11	METAL CHIP	82	5%	1/16W						
R940	1-216-823-11	METAL CHIP	1.5K	5%	1/16W						
R941	1-216-819-11		680	5%	1/16W						
					: AMBER)						
					•						

Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
*		MAIN BOARD, CO		CA410: A	MBER)	C181	1-124-233-11		10uF	20%	16V
*	A-3326-772-A	MAIN BOARD, CO		00/0444	0.005511)	C183		CERAMIC CHIP	100PF	5%	50V
		******		JU/GA41	0: GREEN)	C184	1-10/-823-11	CERAMIC CHIP	0.47uF	10%	16V
						C185	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
*	3-040-998-01	BRACKET (IC)				C191		CERAMIC CHIP	0.001uF	10%	50V
*	3-224-899-01	HEAT SINK (ISO)				C192	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
*		HEAT SINK (REG)				C201		CERAMIC CHIP	330PF	5%	50V
		SCREW +BVTP 3		N-S		C202	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
	7-685-794-09	SCREW +PTT 2.6	X10 (S)			C203	1 162 021 11	CERAMIC CHIP	0.01uF	10%	50V
		< CAPACITOR >				C203		CERAMIC CHIP	0.01uF 0.22uF	10%	16V
		V OAI AUTTOTT >				C205		CERAMIC CHIP	0.22ui 0.1uF	10%	25V
C1	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	C206	1-126-160-11		1uF	20%	50V
C2		CERAMIC CHIP	0.1uF	10%	25V	C208	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C3	1-104-664-11		47uF	20%	16V	_					
C4		CERAMIC CHIP	0.0047uF	5%	50V	C219		CERAMIC CHIP	10PF	0.5PF	50V
C5	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C220 C241	1-163-227-11	CERAMIC CHIP	10PF 1uF	0.5PF 20%	50V 50V
C6	1-124-589-11	FLECT	47uF	20%	16V	C241		CERAMIC CHIP	100PF	20% 5%	50V 50V
C7		CERAMIC CHIP	0.47uF	10%	16V	C271	1-124-233-11		100F	20%	16V
C8		CERAMIC CHIP	0.001uF	10%	50V	02				2070	
C13	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C274		CERAMIC CHIP	0.47uF	10%	16V
C14	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C275		CERAMIC CHIP	0.001uF	10%	50V
						C281	1-124-233-11		10uF	20%	16V
C22		CERAMIC CHIP	0.0047uF	5%	50V	C283		CERAMIC CHIP	100PF	5%	50V
C23 C24		CERAMIC CHIP	0.022uF 0.047uF	10% 10%	25V 25V	C284	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C52		CERAMIC CHIP	0.047ui 0.1uF	10%	25V 25V	C285	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C53		CERAMIC CHIP	10PF	0.5PF	50V	C301	1-124-234-00		22uF	20%	16V
						C302	1-131-353-00		10uF	10%	35V
C54	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C303	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C55	1-124-589-11		47uF	20%	16V	C304	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C57		CERAMIC CHIP	0.1uF	10%	25V	0005	4 407 000 44	0504440 0145	0 47 5	100/	4014
C58		CERAMIC CHIP	330PF	5%	50V	C305		CERAMIC CHIP	0.47uF	10%	16V
C59	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C306 C307		CERAMIC CHIP CERAMIC CHIP	0.01uF 0.01uF	10% 10%	50V 50V
C60	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	C307		CERAMIC CHIP	0.01uF	10%	50V 50V
C61		CERAMIC CHIP	0.0022uF	10%	100V	C332		CERAMIC CHIP	0.001ui 0.0047uF	5%	50V 50V
C62		CERAMIC CHIP	0.001uF	10%	50V	0002		02	0.00	• , ,	
C63	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C335	1-124-233-11	ELECT	10uF	20%	16V
C64	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C336		CERAMIC CHIP	0.01uF	10%	50V
						C337	1-124-584-00		100uF	20%	10V
C90		CERAMIC CHIP	0.001uF	10%	50V	C340		CERAMIC CHIP	0.47uF	10%	16V
C92 C93		CERAMIC CHIP CERAMIC CHIP	0.001uF 470PF	10% 5%	50V 50V	C351	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C94		CERAMIC CHIP	10PF	0.5PF	50V 50V	C352	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C95		CERAMIC CHIP	0.47uF	10%	16V	C353		CERAMIC CHIP	0.01uF		50V
						C354	1-124-233-11		10uF	20%	16V
C96	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	C355	1-124-234-00	ELECT	22uF	20%	16V
C97		CERAMIC CHIP	0.1uF	10%	25V	C356	1-126-934-11	ELECT	220uF	20%	16V
C98		CERAMIC CHIP	0.1uF	10%	25V	0057	4 405 040 44	OEDAMIO OLUB	0.4 5		501/
C99		CERAMIC CHIP	0.001uF	10%	50V	C357		CERAMIC CHIP	0.1uF 0.01uF		50V
C101	1-103-203-11	CERAMIC CHIP	330PF	5%	50V	C358 C501	1-103-031-11	CERAMIC CHIP	47uF	20%	50V 16V
C102	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C503		CERAMIC CHIP	10PF	0.5PF	50V
C103		CERAMIC CHIP	0.01uF	10%	50V	C504		CERAMIC CHIP	10PF	0.5PF	50V
C104		CERAMIC CHIP	0.22uF	10%	16V						
C105		CERAMIC CHIP	0.1uF	10%	25V	C505		CERAMIC CHIP	20PF	5%	50V
C106	1-126-160-11	ELECT	1uF	20%	50V	C506		CERAMIC CHIP	22PF	5%	50V
0440	1 100 007 11	OEDAMIO OLUB	1005	0 505	E01/	C507		CERAMIC CHIP	330PF	5%	50V
C119		CERAMIC CHIP	10PF	0.5PF	50V	C510		CERAMIC CHIP	0.001uF	10%	50V
C120 C141	1-163-227-11	CERAMIC CHIP	10PF 1uF	0.5PF 20%	50V 50V	C511	1-103-133-11	CERAMIC CHIP	470PF	5%	50V
C141		CERAMIC CHIP	100PF	20 % 5%	50V 50V	C551	1-125-710-11	DOUBLE LAYER	0.1F		5.5V
C171	1-103-231-11		100F	20%	16V	C552	1-126-934-11		220uF	20%	16V
	30	- *			- <del>-</del>	C553		CERAMIC CHIP	0.1uF	10%	25V
C174	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C571	1-126-160-11		1uF	20%	50V
C175	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C581	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>		<u>Remark</u>
CEOE	1 100 000 11	FI FOT	100	000/	101/	D704	0 710 070 40	DIODE 17000 (	TDAO\	
C585	1-126-933-11		100uF	20%	16V	D724		DIODE 17B22 (		
C611	1-126-157-11		10uF	20%	16V	D731		DIODE 17B22 (		
C615	1-126-157-11		10uF	20%	16V	D732		DIODE 17B22 (		
C616 C617	1-126-157-11 1-126-157-11		10uF 10uF	20% 20%	16V 16V	D733 D734		DIODE 1ZB22 ( DIODE 1ZB22 (		
6017	1-120-137-11	ELEGI	TOUF	20%	100	D734	0-719-079-42	DIODE 12B22 (	IPAS)	
C622	1-124-589-11	ELECT	47uF	20%	16V	D781	8-719-049-38	DIODE 1N5404	TU	
C752	1-136-165-00		0.1uF	5%	50V					
C754	1-124-233-11		10uF	20%	16V			< IC >		
C755	1-126-157-11		10uF	20%	16V					
C781	1-107-885-31	ELECT	3300uF	20%	16V	IC51		IC SAA6588T-1		
C782	1 162 000 11	CERAMIC CHIP	0.001uF	10%	50V	IC90 IC301		IC uPC4558G2-IC CXA2509AQ-		
C783		CERAMIC CHIP	0.001uF	10%	50V 50V	IC331		IC TDA7402TR	114	
C785		CERAMIC CHIP	0.001uF	10%	50V 50V	IC351		IC LB1930M-TL	M	
C902		CERAMIC CHIP	0.22uF	10%	16V	10001	0 700 027 00	TO EDITOON TE	-101	
C903		CERAMIC CHIP	0.22uF	10%	16V	IC501	8-759-828-82	IC MN101C49K	TC	
						IC551		IC XC61CN4302		
		< CONNECTOR >				IC581	8-759-096-16	IC MM1175XFF		
						IC611		IC BA4908-V3		
		CONNECTOR, FFO				IC751	8-759-827-14	IC TA8268AH		
CN351		CONNECTOR, FFO		ONTDOL	INI			1401/		
CN581 CN701		PLUG, CONNECT PLUG, CONNECT		UNIKUL	IN)			< JACK >		
		PIN, CONNECTOR				J1	1-815-185-11	IACK (ANT) (FM	/AM ANTENNA IN)	
014701	1-734-070-12	T IIV, OOIVIVLOTOI	1 (100)			J561		JACK (REMOTE		
		< JACK >					. 000 022	0.1011 (1.1110.12	,	
								< SHORT >		
CNJ151	1-774-699-12	,	ALIDIO IN	ALIDIO O	UT DEAD)	104	1 010 005 11	OLIODT	0	
		(BOS	AUDIO IN,	AUDIU C	OUT REAR)	JC1	1-216-295-11		0	
		< DIODE >				JC3 JC4	1-216-295-11 1-216-296-11		0	
		< DIODE >				JC5	1-216-296-11		0	
D1	8-719-056-65	DIODE 1SS372-	TF85I			JC6	1-216-296-11		0	
D51		DIODE MA111-				000	1 210 200 11	OHOTH	Ü	
D55		DIODE MA111-				JC7	1-216-296-11	SHORT	0	
D90		DIODE MA111-				JC8	1-216-296-11		0	
D91	8-719-073-01	DIODE MA111-	(K8).S0			JC9	1-216-296-11	SHORT	0	
						JC10	1-216-295-11		0	
D92		DIODE DTZ5.1B				JC11	1-216-295-11	SHORT	0	
D351		DIODE DTZ9.1	400			1040	1 010 000 11	OLIODT	•	
D352		DIODE 1SR139-				JC12	1-216-296-11		0	
D502 D552		DIODE UDZ-TE- DIODE MA112-7				JC13 JC14	1-216-296-11 1-216-296-11		0	
D332	0-7 19-007-30	DIODE WATTZ-	1 ^			JC14 JC15	1-216-296-11		0	
D553	8-719-073-01	DIODE MA111-	(K8) S0			JC17	1-216-296-11		0	
D581		DIODE UDZ-TE-					. 2.0 200	0	·	
D582	8-719-056-82	DIODE UDZ-TE-	17-6.2B			JC18	1-216-295-11	SHORT	0	
D585	8-719-072-70	DIODE MA2ZD1	4001S0			JC50	1-216-296-11	SHORT	0	
D586	8-719-056-93	DIODE UDZ-TE-	17-18B			JC51	1-216-296-11		0	
						JC53	1-216-296-11		0	
D610		DIODE 1SR139-				JC54	1-216-295-11	SHORT	0	
D611		DIODE 1SR139-				1000	1 010 005 11	CHODT	0	
D613 D622		DIODE 1SR139- DIODE MA111-				JC90 JC106	1-216-295-11 1-216-295-11		0	
D703		DIODE MATTI-				JC301	1-216-295-11		0	
D7 00	0-715-105-57	DIODE NOO.OES	102			JC302	1-216-295-11		0	
D704	8-719-109-97	DIODE RD6.8ES	B2			JC331	1-216-295-11		0	
D705		DIODE RD6.8ES								
D706		DIODE MA4180				JC351	1-216-295-11	SHORT	0	
D707		DIODE RD6.8ES				JC352	1-216-295-11		0	
D708	8-719-109-97	DIODE RD6.8ES	B2			JC353	1-216-295-11		0	
<b>5-</b> 4-	0 740 45	DIODE SEE				JC552	1-216-296-11		0	
D709		DIODE RD6.8ES				JC581	1-216-295-11	SHORT	0	
D710		DIODE 17822 (1				10500	1-216-205 11	SHUBT	0	
D721 D722		DIODE 1ZB22 (1 DIODE 1ZB22 (1				JC588 JC622	1-216-295-11 1-216-295-11		0	
D722 D723		DIODE 12B22 (1	,			JC622 JC623	1-216-295-11		0	
טובט	3 1 10 010-42	שוטטב וצטבב (ו	,			30020	1 210 230-11	3113111	5	

										l	1417-411-4
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
JC701	1-216-295-11	SHORT	0			R60	1-216-001-00	METAL CHIP	10	5%	1/10W
JC701	1-216-295-11		0			R91	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
00702	1 210 200 11	OHOITI	U			R92	1-216-025-11		100	5%	1/10W
JC751	1-216-296-11	SHORT	0			R93	1-216-097-11		100K	5%	1/10W
JC752	1-216-296-11	SHORT	0			R95	1-216-121-11	RES-CHIP	1M	5%	1/10W
JC753	1-216-295-11	SHORT	0								
JC754	1-216-296-11		0			R96	1-216-025-11		100	5%	1/10W
JC755	1-216-296-11	SHORT	0			R97	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R98	1-216-073-00		10K	5%	1/10W
JC759	1-216-296-11		0			R99	1-216-057-00		2.2K	5%	1/10W
JC761	1-216-295-11 1-216-295-11		0 0			R100	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
JC762 JC763	1-216-295-11		0			R101	1-216-041-00	METAL CHID	470	5%	1/10W
JC764	1-216-296-11		0			R102	1-216-109-00	METAL CHIP	330K	5%	1/10W
00704	1 210 200 11	OHOITI	U			R103	1-216-077-00		15K	5%	1/10W
JC765	1-216-295-11	SHORT	0			R104	1-216-079-00		18K	5%	1/10W
JC766	1-216-296-11		0			R141	1-216-073-00	METAL CHIP	10K	5%	1/10W
JC767	1-216-295-11	SHORT	0								
						R142	1-216-049-11	RES-CHIP	1K	5%	1/10W
		< COIL >				R170	1-216-025-11		100	5%	1/10W
						R171	1-216-025-11		100	5%	1/10W
L501	1-410-501-11		2.2uH			R175	1-216-089-11		47K	5%	1/10W
L502		INDUCTOR	2.2uH			R180	1-216-025-11	RES-CHIP	100	5%	1/10W
L781	1-419-476-11	INDUCTOR	250uH			D101	1-216-025-11	DEC CHID	100	5%	1/10W
		< TRANSISTOR >				R181 R185	1-216-025-11		47K	5%	1/10W
		< mailsision >	•			R191	1-249-437-11		47K 47K	5%	1/10W
Q90	8-729-027-59	TRANSISTOR	DTC144EKA	\-T146		R192	1-216-069-00		6.8K	5%	1/10W
Q91	8-729-120-28		2SC1623-L			R201	1-216-041-00	METAL CHIP	470	5%	1/10W
Q171	8-729-920-21		DTC314TKH								
Q181	8-729-920-21	TRANSISTOR	DTC314TKH	104		R202	1-216-109-00	METAL CHIP	330K	5%	1/10W
Q271	8-729-920-21	TRANSISTOR	DTC314TKH	104		R203	1-216-077-00		15K	5%	1/10W
						R204	1-216-079-00		18K	5%	1/10W
Q281	8-729-920-21		DTC314TKF			R241	1-216-073-00		10K	5%	1/10W
Q351		TRANSISTOR	2SD1802FA			R242	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q352		TRANSISTOR	FMC2A-T14	18		D070	1 010 005 11	DEC CUID	100	E0/	1/10/4/
Q353 Q354	8-729-900-53 8-729-106-60		DTC114EK 2SB1115A-	VΩ		R270 R271	1-216-025-11 1-216-025-11		100 100	5% 5%	1/10W 1/10W
Q33 <del>4</del>	0-729-100-00	INANSISTUN	ZODITIOA-	TU		R271	1-216-025-11		47K	5%	1/10W
Q551	8-729-027-23	TRANSISTOR	DTA114EKA	\-T146		R280	1-216-025-11		100	5%	1/10W
Q571	8-729-120-28		2SC1623-L			R281	1-216-025-11		100	5%	1/10W
Q581	8-729-900-53	TRANSISTOR	DTC114EK								
Q583	8-729-120-28		2SC1623-L	5L6		R285	1-216-089-11	RES-CHIP	47K	5%	1/10W
Q601	8-729-106-60	TRANSISTOR	2SB1115A-	YQ		R301	1-216-079-00		18K	5%	1/10W
						R302	1-216-097-11		100K	5%	1/10W
Q602	8-729-900-53		DTC114EK	T4 40		R303	1-216-063-00		3.9K	5%	1/10W
Q621	8-729-027-23		DTA114EKA	A-1146		R304	1-216-077-00	RES-CHIP	15K	5%	1/10W
Q622	8-729-900-53	HUICICNATI	DTC114EK			R305	1-216-001-00	МЕТАІ СНІР	10	5%	1/10W
		< RESISTOR >				R306	1-216-105-00		220K	5%	1/10W
						R331	1-249-393-11		10	5%	1/4W
R1	1-216-025-11	RES-CHIP	100	5%	1/10W	R332	1-216-089-11		47K	5%	1/10W
R2	1-216-025-11	RES-CHIP	100	5%	1/10W	R335	1-216-025-11	RES-CHIP	100	5%	1/10W
R3	1-216-081-00			5%	1/10W						
R8	1-216-025-11			5%	1/10W	R336	1-216-025-11		100	5%	1/10W
R9	1-216-025-11	RES-CHIP	100	5%	1/10W	R351	1-216-049-11		1K	5%	1/10W
D40	1 010 000 11	DEO OLUB	471/	F0/	4 (4 0) 14	R352	1-249-383-11		1.5	5%	1/6W
R12	1-216-089-11			5% 5%	1/10W	R353	1-216-065-00		4.7K	5% 5%	1/10W
R13 R21	1-216-097-11 1-216-069-00			5% 5%	1/10W 1/10W	R354	1-216-073-00	WEIAL UNIP	10K	J %	1/10W
R51	1-216-009-00			5% 5%	1/10W	R500	1-247-807-31	CARRON	100	5%	1/4W
R52	1-216-025-11			5%	1/10W	R501	1-247-807-31		100	5%	1/4W
.102	. 2.0 020 11	0 01111		- , -	.,	R502	1-216-049-11		1K	5%	1/10W
R53	1-216-113-00	METAL CHIP	470K	5%	1/10W	R507	1-216-049-11		1K	5%	1/10W
R54	1-216-049-11			5%	1/10W	R508	1-216-049-11		1K	5%	1/10W
R55	1-216-081-00			5%	1/10W						
R56	1-216-041-00			5%	1/10W	R509	1-216-049-11		1K	5%	1/10W
R59	1-216-001-00	METAL CHIP	10	5%	1/10W	R511	1-216-073-00		10K	5%	1/10W
						R513	1-216-073-00	METAL CHIP	10K	5%	1/10W

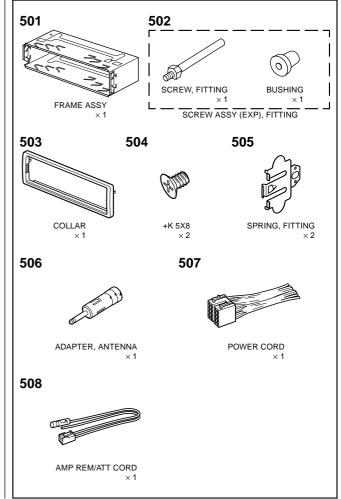
Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
R514	1-216-097-11		100K	5%	1/10W	R607	1-249-399-11	CARBON	33	5%	1/4W
R515	1-216-097-11	RES-CHIP	100K	5%	1/10W	R608	1-249-399-11	CARRON	33	5%	1/4W
R516	1-216-097-11	DEC-CHID	100K	5%	1/10W	R609	1-249-397-11		22	5%	1/4W
R517	1-216-097-11		100K	5%	1/10W	R625	1-216-017-00		47	5%	1/4VV 1/10W
	1-216-097-11		100K 100K			R701	1-216-017-00		100	5%	
R518				5%	1/10W						1/10W
R519	1-216-097-11		100K	5%	1/10W	R751	1-249-417-11	CARBON	1K	5%	1/4W
R520	1-216-097-11	RES-CHIP	100K	5%	1/10W						
						R753	1-249-429-11		10K	5%	1/4W
R521	1-216-049-11		1K	5%	1/10W	R756	1-216-198-00		1K	5%	1/10W
R522	1-216-049-11	RES-CHIP	1K	5%	1/10W	R757	1-216-198-00	RES-CHIP	1K	5%	1/10W
R523	1-216-049-11	RES-CHIP	1K	5%	1/10W	R758	1-216-198-00	RES-CHIP	1K	5%	1/10W
R526	1-216-097-11	RES-CHIP	100K	5%	1/10W	R760	1-216-198-00	RES-CHIP	1K	5%	1/10W
R527	1-216-097-11	RES-CHIP	100K	5%	1/10W						
						R901	1-216-295-11	SHORT	0		
R528	1-216-097-11	RES-CHIP	100K	5%	1/10W	R902	1-216-097-11		100K	5%	1/10W
R529	1-216-097-11		100K	5%	1/10W	R903	1-216-097-11		100K	5%	1/10W
R530	1-216-097-11		100K	5%	1/10W	R904	1-216-097-11		100K	5%	1/10W
R531	1-216-097-11		100K	5%	1/10W	11001	1 210 007 11	TILO OTTI	10010	0 70	171000
R532	1-216-097-11		100K	5%	1/10W			< SWITCH >			
NUUZ	1-210-097-11	NEO-UNIF	TOUR	J /0	1/1000			< SWITCH >			
R533	1-216-097-11	RES-CHIP	100K	5%	1/10W	S551	1-692-431-21	SWITCH, TACTILI	E (RESET)		
R535	1-216-097-11	RES-CHIP	100K	5%	1/10W						
R538	1-216-033-00	METAL CHIP	220	5%	1/10W			< THERMISTOR >	>		
R539	1-216-033-00		220	5%	1/10W						
R543	1-216-097-11		100K	5%	1/10W	TH501	1-803-350-21	THERMISTOR, PO	OSITIVE		
DE 44	1 010 005 11	CHODE	0					. TUNED UNIT .			
R544	1-216-295-11		0	F0/	4 (4 0) 14			< TUNER UNIT >			
R545	1-216-025-11		100	5%	1/10W	T114		ENA/ANA TUNED U	(	00)	
R547	1-247-807-31		100	5%	1/4W	TU1	A-3220-812-A	FM/AM TUNER U	NII (IUX-U	20)	
R550	1-216-089-11		47K	5%	1/10W						
R551	1-216-097-11	RES-CHIP	100K	5%	1/10W			< VIBRATOR >			
R552	1-216-097-11	RES-CHIP	100K	5%	1/10W	X51	1-579-242-41	VIBRATOR, CRYS	STAL (4.332	MHz)	
R555	1-208-806-11		10K	0.5%	1/10W	X501		VIBRATOR, CRYS			
R556	1-208-806-11		10K	0.5%	1/10W	X501		VIBRATOR, CRYS			
R557	1-247-807-31		100	0.5 % 5%	1/10VV 1/4W			**********	`	,	e ale ale ale ale ale ale ale ale ale
R559			100K	5%	1/4VV 1/10W						
noos	1-216-097-11	NEO-UNIP	TOUK	370	1/1000			MISCELLANEOUS	3		
R562	1-208-806-11	RES-CHIP	10K	0.5%	1/10W			*******			
R563	1-216-025-11		100	5%	1/10W						
R564	1-216-025-11		100	5%	1/10W	17	1_789_381_11	CORD (WITH CO	VINIECTOR)	(ISO P8.9	2)
R569	1-216-023-11		100K	5%	1/10W	''	1-702-301-11	OOND (WITH OOI			European)
11303	1-210-031-11	NEO-OTH				10	1 777 000 41	CODD (MITH COL			
DE70	1 010 007 11	DEC OUID	•		O: GREEN)	18		CORD (WITH COI			IVI/ATT)
R570	1-216-097-11	RES-CHIP	100K	5%	1/10W	60		CONDUCTIVE BO			0.4.\
				(GA41C	): AMBER)	F781 HP901		FUSE (BLADE TY) HEAD, MAGNETIC	, ,	, ,	UA)
R571	1-216-065-00	DEC CHID	4.7K	5%	1/10W	пгэот	1-300-137-21	HEAD, WAGNETIC	J (FLATDAL	JK)	
R571	1-216-089-11		4.7K 47K	5%	1/10W	I CD001	1 00/ 200 11	DISPLAY PANEL,	ו וטוווט כם	VCTAI	
								·			`
R573	1-249-425-11		4.7K	5%	1/4W	M901		MOTOR ASSY, MA			-)
R576	1-216-097-11		100K	5%	1/10W	TU1		FM/AM TUNER U	`	,	
R577	1-216-089-11	RES-CHIP	47K	5%	1/10W	*******	*****	*******	*****	*****	*****
R578	1-216-097-11	RES-CHIP	100K	5%	1/10W						
R580	1-216-025-11		100	5%	1/10W						
R581	1-216-049-11		1K	5%	1/10W						
R582	1-216-077-00		15K	5%	1/10W						
R583	1-216-025-11		100	5%	1/10W						
11000	1 210 020 11	TILO OTTI	100	<b>3</b> /0	1/1000						
R586	1-216-073-00		10K	5%	1/10W						
R587	1-216-073-00		10K	5%	1/10W						
R588	1-216-049-11	RES-CHIP	1K	5%	1/10W						
R589	1-216-089-11	RES-CHIP	47K	5%	1/10W						
R595	1-216-097-11		100K	5%	1/10W						
R603	1-216-057-00	METAL CLID	2.2K	5%	1/10W						
R604	1-216-037-00		2.2K 10K	5% 5%	1/10W						
R605	1-249-399-11		33	5% 5%	1/10VV 1/4W						
R606	1-249-399-11	UANDUN	33	5%	1/4W	I					

Ref. No.	Part No.	Description	<u>Remark</u>
		******	
		HARDWARE LIST	
		****	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#3	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#4	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#6	7-624-104-04	STOP RING 2.0, TYPE -E	
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
******	******	***********	*****

# ACCESSORIES & PACKING MATERIALS

3-226-701-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH, ITALIAN) 3-226-701-21 MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, GREEK) 3-226-701-31 MANUAL, INSTRUCTION (ENGLISH, POLISH, CZECH, RUSSIAN, TURKISH) 3-226-702-11 MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN, DUTCH, ITALIAN) 3-226-702-21 MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, GREEK) 3-226-702-31 MANUAL, INSTRUCTION, INSTALL (ENGLISH, POLISH, CZECH, RUSSIAN, TURKISH) X-3378-490-1 CASE (PANEL) ASSY (for FRONT PANEL)

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
		STALLATION AND CONNECTIONS	
501	X-3373-602-1	FRAME ASSY	
502	X-3366-405-1	SCREW ASSY (EXP), FITTING	
503	3-225-732-01	COLLAR	
504	3-934-325-01	SCREW, +K (5X8) TAPPING	
505	3-041-000-01	SPRING, FITTING	
506	1-465-459-21	ADAPTER, ANTENNA	
507	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S (POWER) (South	,
508	1-777-989-41	CORD (WITH CONNECTOR) (AMP RE	M/ATT)



# **REVISION HISTORY**

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2001.01	New
1.1	2001.04	Change of part No. for SPRING (RELEASE) (ECN-CSA04437)
1.2	2002.07	Correction of printed wiring board for KEY board (SPM-02006)